TUFFA TANKS

YOUR IN-HOUSE LIQUID STORAGE SOLUTION PARTNERS

OIL TANKS

WATER TANKS

CHEMICAL TANKS

BESPOKE PRODUCTS

INTRODUCTION

TUFFA MANUFACTURE A RANGE OF EASY TO HANDLE ABOVE GROUND TANKS THAT PROVIDE HIGHLY PROFESSIONAL LIQUID STORAGE SOLUTIONS FOR ALL APPLICATIONS.

Contents

Our family of products 03
Plastic Bunded Heating Oil Tanks 06
Steel Fire Protected Tanks 09
Plastic Fire Protected Tanks 10
Plastic Bunded Fuel Stations - Standard & Economy 12
Plastic Dual Compartment Tanks 14
Plastic Waste Oil Tanks 16
Plastic Single Skin Tanks 17
Plastic Water Tanks 18
Plastic Rainwater Harvesting Tanks 20
Plastic Molasses Tanks 21
Plastic AdBlue Tanks - Holding & Dispensing Tanks 22
Plastic Chemical Tanks 24
Steel Dispensing Tanks 26
Steel Bunded Tanks 28
Steel Petrol Tanks 30
Bespoke Products 32
Accessories 38
Tuffa FMS 40
FAQ's 41
Tank Inspection & Maintenance Guidelines 42

Tanks for all your liquid storage needs...

Leading the way in tank design and plastic and steel tank manufacturing, Tuffa Tanks without question, have the UK's number 1 liquid storage tank range.

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OUR FAMILY OF PRODUCTS

Bunded Oil Tanks

Tuffa Bunded Oil Tanks are available in a variety of capacities from 1350 litres to 15000 litres and are manufactured to exceed all current regulations.

Bunded Fire Protected Tanks

The 'Tuffa FireStop'; Tuffa's Fire Protected Tanks are designed with a 'fire barrier' to protect oil tanks where fire protection is necessary. The fire barrier is constructed from a high quality fire retardant material and the innovative FireStop tank is the only one of its kind on the market.

Bunded Fuel Dispensing Tanks

Tuffa Fuel Stations are specifically designed for fuel dispensing. They are available in 1350-15000 litre capacities and ensure that you meet all current fuel storage regulations.

Multi Compartment Tanks

Tuffa Multi Compartment Tank range is an innovative design concept that includes two, three or more compartments within one bund to provide one single tank unit, as opposed to multiple, suitable for storing two or more different types of liquids. They are convenient for filling, space saving on a communal base and each product can be separately dispensed and monitored. A major plus is the cost saving as there is no need to purchase separate tanks.

Waste Oil Storage

Tuffa Waste Oil Tanks have been engineered for the safe, secure and environmentally responsible storage of waste oils, and come in a variety of capacities from 1350 litres to 15000 litres.

Single Skin Tanks

Tuffa Single Skin Tanks are specifically designed to suit domestic applications where bunding is not a legal requirement, and are available in various sizes and shapes to suit your requirements.

Water Tanks

Tuffa provide a vast range of water storage solutions for domestic, agricultural, industrial and commercial premises to exceed the most demanding technical and regulatory requirements.

Rainwater Harvesting Tanks

Tuffa Rainwater Harvesting Tanks – "Big Butts" – provide a simple rainwater harvesting solution to both homeowners and businesses alike, an investment to benefit from for many years.

AdBlue Storage & Dispensing Tanks

Tuffa UK Ltd provides a range of easy to handle above ground AdBlue Storage and Dispensing Tanks for Agricultural and Commercial companies. The chemical characteristics of AdBlue require special storage and handling equipment, for which Tuffa Tanks are the ideal solution.

Chemical Storage

All Tuffa Chemical Tanks are subject to the highest and best Quality Check (QC) procedures ensuring constant high quality products. Chemical storage tanks are designed, manufactured and tested in-house at our works in Uttoxeter and these bulk storage containers are suitable for a variety of chemical and water treatment applications.

Steel Products

Our steel tanks are available in a range of colours, capacities and thicknesses. They are manufactured to your specification including critical dimensions, and for all applications including domestic, agricultural, industrial and commercial.

Petrol Tanks

These tanks are the only UK manufactured, above ground petrol storage systems of their kind. Suitable for any Industry, including Tool Hire Shops, Scrap yards, Race courses, Golf clubs, Forestry, Sailing Clubs, Marine services, Yacht clubs, Construction, Allotments, Fire Service, Sports centre, Colleges, Schools, Farms, Country Estate/Gardens, Local Authorities, Factory's, Police Stations, Car dealerships, Outdoor pursuits + many others.

Bespoke Products

Not only are Tuffa Tanks a manufacturer of tanks suitable for all types of liquid storage, they can be used for a variety of non-liquid applications. This includes tanks for food storage, dry storage, wood pellets, garden sheds, molasses and much more. The TUFFA range of products is quite diverse which sets it apart from its competitors as we can manufacture bespoke items to clients specifications, and offer technical support and advice to all customers.

FMS

The Tuffa FMS unit combines innovative design and meticulous function to give a robust and reliable liquid level monitoring system. Its high accuracy readings will give the user a clear picture of the tanks contents and its GSM technology allows you to check your tank level anywhere or even alert the owner of a theft. Coupled with this system is the added feature of our fuel management system, this system is managed by you from our Web Portal. Create you own account and manage your fleet with a host of innovative features that keep you in charge of your fuel.

ABOUT US

TUFFA UK IS A WELL ESTABLISHED BUSINESS OFFERING A PERSONABLE AND PROFESSIONAL SERVICE, WHILST HAVING THE COMMITMENT AND RESOURCES TO GO THE EXTRA MILE FOR OUR CUSTOMERS. TUFFA ARE PROUD OF THEIR IN HOUSE QUALITY SYSTEM AND AFTER-SALES SERVICE.

The Managing Director, who has engineering skills to develop products and manufacturing processes, has over 25 years experience in liquid storage and dispensing equipment. With the loyal support and dedication of the company's team, TUFFA UK has become the leading innovator in tank manufacturing, a forward thinking market leader in product design and future technology to assist industry and the consumer.

The factory is in central England, United Kingdom and is therefore logistically very well located with excellent transport links.

Our clients are both national and international for all the Tuffa range of tank products and include the following selection of businesses and industry:

- Factories
- Shops
- Offices and Institutions
- Local Government and Building Control
- The Transport Sector
- Schools
- Universities
- Hospitals
- Farms and Agriculture
- Charitable Organisations
- Churches
- Historic Buildings
- Construction

- Building Contractors
- Plumbers and Tank Installers
- Golf Courses
- Grounds Maintenance
- Water Authorities
- Oil Companies
- Garages
- Chemical and Pharmaceuticals
- Architects and Specifiers
- Facilities Management
- Sports and Amenity Sites
- ... and any other site requiring liquid storage

Accreditations and Awards

We take great care to ensure that all our tanks are manufactured to comply with the relevant legislation and industry body guidelines. Tuffa UK Ltd are members and supporters of a variety of groups and associations.

APHC
Association of Plumbing and Heating Contractors
www.aphc.co.uk

LABC
Local Authority Building Control
www.labc.uk.com

Peninsula
Employer of Excellence

DEFRA
ECA Water Technology List
www.defra.gov.uk

UKTI Defence and Security Organisation

Small Business Unit Chambre de Commerce
Francaise de Grande Bretagne
www.ccfgb.co.uk

CE Marking
www.cemarkingassociation.co.uk

HEATFED
Heating Engineers & Allied Trades Federation Ltd
www.heatfed.co.uk

BUNDED OIL TANK RANGE

THE TUFFA® BUNDED OIL TANK RANGE IS AVAILABLE IN VARIOUS CAPACITIES INCLUDING 1350L, 1400L, 2500L, 3500L, 6000L, 10000L, 15000L AND INTERLINKING UP TO 100,000 LITRES.

The Tuffa range of bunded heating oil tanks meet and exceed all current oil storage regulations in the UK. They are renowned for strength, reliability and quality. Suitable for Domestic, Commercial and Agricultural applications for new build and existing buildings, they:

- Safeguard the property against potential oil spills or ground contamination.
- Provide peace of mind knowing that the oil supply is stored in a good quality and reliable oil tank.
- Ensure your fuel is stored in a secure and regulation compliant manner.

1350SLB
Length: 2680mm
Width: 870mm
Height: 1665mm
Capacity: 1350 litres
Weight: 200kg

Key Benefits

- The bund contains a minimum 110% volume of the inner tank
- The bunded construction offers integral protection from leakage and overfilling
- The covered bund prevents the collection of rainwater and debris
- Lockable outer cabinet (larger models), lockable flip lid (smaller models) allowing access to all equipment
- An overfill prevention device is fitted to all larger bunded tanks; automatic shut off when the tank is full
- Made from recyclable polyethylene
- Corrosion resistant
- UV stabilised

Slim Line Bunded Tank (SLB)
Vertical Bunded Tank (VB)
Horizontal Bunded Tank (HB)

1400VB
Diameter: 1585mm
Height: 1740mm
Capacity: 1400 litres
Weight: 160kg

2500HB
Length: 2840mm
Width: 1520mm
Height: 1650mm
Capacity: 2500 litres
Weight: 270kg

GREAT PRODUCTS
GREAT PRICES
GREAT SERVICE

3500VB **
Diameter: 2034mm
Height: 2520mm
Capacity: 3500 litres
Weight: 350kg

6000VB **
Diameter: 2580mm
Height: 2610mm
Capacity: 6000 litres
Weight: 410kg

10000VB
Diameter: 2890mm
Height: 2600mm
Capacity: 10000 litres
Weight: 470kg

15000VB
Diameter: 2860mm
Height: 3500mm
Capacity: 15000 litres
Weight: 700kg

Features

1350/1400/2500 models

- Tank Pack as standard (1" – ½" adaptor, ball valve and filter
- 2" BSP Fill Point with cap and chain
- Vent
- Inspection Lid
- Contents Gauge
- Lockable Hinged Flip Lid
- 1" BSP Bottom Outlet (Top Outlet available on request)
- Colour: Black Bund and Clear Inner

3500/6000/10000/15000 models

- 2" BSP Fill Point
- Vent
- Contents Gauge
- 1" BSP Bottom Outlet (Top Outlet available on request)
- An Overfill Prevention Valve
- Lockable Fill Point Cabinet (** 3500/6000 optional extra)
- Battery Bund & Overfill Alarm with Warning Light (** 3500/6000 optional extra)
- Colour: Black

Optional Extras

1350/1400/2500 models

- Lockable Fill Cap & Chain
- Fire Protection
- Top Outlet
- Various other colours available

3500/6000/10000/15000 models

- Lockable Fill Point Cabinet with Battery Bund and Overfill Alarm optional for the 3500/6000 models. Standard on the 10000/15000 models. *
- Lockable Fill Cap & Chain
- Fire Protection
- High Accuracy Contents Gauge & Bund and Overfill Alarm Unit, 240V (Tuffa FMS)
- Security Fill Point
- Higher Accuracy Contents Gauge
- High Security Steel Cabinet with Roller Shutter
- Lockable Manway Access
- Top Outlet
- Various other colours available

Range Summary

Tank	Capacity (litres)	Length (mm)	Width (mm)	Diameter (mm)	Height (mm)	Weight (kgs)
1350SLB	1350	2680	870	-	1665	200
1400VB	1400	-	-	1585	1740	160
2500HB	2500	2840	1520	-	1630	270
3500VB	3500	-	-	2034	2520	350
6000VB	6000	-	-	2580	2610	410
10000VB	10000	-	-	2890	2600	470
15000VB	15000	-	-	2860	3500	700

Tank Pack is fitted as standard to 1350SLB, 1400VB and 2500HB models

MONITORING THE CONTENTS:

1350/1400/2500 models
Clock Gauge: The smaller models are supplied with a visual contents gauge. The simple float device consists of a clock face attached with a float which provides a simple rough indication of the tank contents. The accuracy of the gauge is +/- 5% approximately and shows EMPTY,1/4,1/2,3/4 or FULL.

3500/6000/10000/15000 models
Electronic Contents Gauge: The larger models are supplied with an electronic level monitoring gauge. The measurement reader is situated within the bund. The display unit is connected to a standard 3-pin socket in the house/premises. This system is pre-set at the factory and, once activated, will display the tank contents in 1/10ths.

What is it?

The Tuffa FireStop is an efficient and modern fire barrier system, designed for protecting the oil tank where fire protection is required. Ready factory fitted, quick and easy to install directly against the risk of FIRE.

What tank sizes are available?

The tanks are available for domestic and commercial applications ranging in size from 1350 litres – 15000 litres and are available with either 30 or 60 minute Fire Protection. Steel Tanks can also be tailor-made in a size to suit a particular site.

Do I have to do any extra works on site?

No not at all. The TUFFA Fire Stop is a simple method that requires no brickwork, barriers or Firewalls to be erected on site making sure there are no delays in installing the tank. The customer can have their new tank in the same place.

What about the installation?

The installation needs to be signed off by a competent person to comply with Local Authority Building Control, but installers who are a member of the APHC scheme can self certify.

Does it comply with Regulations?

The Tuffa FireStop is designed with a 'fire barrier' to protect oil tanks where fire protection is necessary. The fire barrier is constructed from high quality fire retardant material, with the following achievements:

Independently tested to BS476: Part 22: 1987

Independently tested to BS476 (Warrington Fire Research Centre)

Meets Section J 5.4 of Building Regulations, Table 5.1 for Fire Protection for Oil Storage Tanks

LABC (Local Authority Building Control) System Approval

CE marked in accordance with EN13341 and the Construction Products Regulations.

What sites are suitable for it?

Any site requiring a fire proof tank for their oil storage, and in most cases it allows the customers tank to stay in the same location.

Who are our customers?

A variety of domestic, commercial and industrial applications, institutions, local and national government departments.

Customer Installations

The Manufacturing Process

STEEL FIRE PROTECTED TANK RANGE

OUR STANDARD STEEL FIRE PROTECTED TANK RANGE IS AVAILABLE IN VARIOUS CAPACITIES, FROM 900 LITRES TO 2300 LITRES, WITH LARGER CAPACITIES OF UP TO 200,000 LITRES AVAILABLE.

The inner tank is clad in either a 30 minute or 60 minute fire rated material, then completely enclosed in a mild steel bund making the unit weatherproof and secure. The fire rated material can be fitted to any Tuffa Tank giving a secure fire-rated oil storage solution for both the domestic and non-domestic market.

Features

- Fire Retardant material Integrally fitted
- 2" BSP Fill Point complete with cap and chain
- Vent
- Clock gauge & Remote Reading Electronic Watchman Sonic Gauge, 240v mains.
- 1" BSP bottom outlet (Top Outlet available on request)
- Overfill Prevention Valve
- Channel Runners (these will increase the tank height)
- Lifting Lugs
- Primed and Painted in standard green (other colours available)

Larger and Bespoke models can also be manufactured to your exact requirements and can come complete with 30 minute or 60 minute Fire Protection making them suitable for Domestic, Industrial and Commercial applications.

Optional Extras

- Lockable Fill Point Cabinet
- Tank Pack (1" – ½" adaptor, ball valve and filter)
- Lockable Fill Point
- Various colours available, including Sandstone

900SBFP/30
900SBFP/60
Length: 1700mm
Width: 800mm
Height: 1250mm
Capacity: 900 litres
Weight: 500kg

1100SBFP/30
1100SBFP/60
Length: 2000mm
Width: 1000mm
Height: 1100mm
Capacity: 1100 litres
Weight: 650kg

1400SBFP/30
1400SBFP/60
Length: 2000mm
Width: 1250mm
Height: 1100mm
Capacity: 1400 litres
Weight: 775kg

1640SBFP/30
1640SBFP/60
Length: 1900mm
Width: 1250mm
Height: 1250mm
Capacity: 1640 litres
Weight: 800kg

2300SBFP/30
2300SBFP/60
Length: 2500mm
Width: 1250mm
Height: 1250mm
Capacity: 2300 litres
Weight: 950kg

Larger sizes available

This Steel Fire Protected Inner Tank makes up part of a mammoth tank weighing in at 18 tonnes. The Tank measured up at 12000mm (L) x 2700mm (W) x 2500mm (H) and consisted of 1x 47,000 litre and 1x 10,000 litre compartments suitable to store Diesel and AdBlue respectively.

FIRE PROTECTED TANK RANGE

THE TUFFA® BUNDED FIRE PROTECTED TANK RANGE IS AVAILABLE IN VARIOUS CAPACITIES INCLUDING 1350L, 1400L, 2500L, 3500L, 6000L, 10000L, 15000L AND INTERLINKING UP TO 100,000 LITRES.

Our FireStop bunded tank can be manufactured to fit any capacity tank and can range from 30 minutes and 60 minutes protection making it suitable for domestic, industrial and commercial applications.

The FireStop is the only system on the market that fits integrally onto our plastic tanks and it can be factory fitted to any Tuffa Steel Tank. It uses a simple method that requires no brickwork, barriers or firewalls to be erected on site making sure there are no delays in installing the tank or added site costs.

Key Benefits

- Will benefit the end user, for Domestic and Commercial Applications.
- Will ensure compliance with Local Authority Building Control Services and thus the Building Regulations.
- Provide an easy, efficient means of installation.
- Will allow the tank to be fitted in a convenient location.
- Is Cost efficient as it requires no brickwork, barriers or firewalls to be erected on site making sure there are no delays in installing the tank or added site costs.
- Are Bunded and the Fire Retardant material is factory fitted integrally.
- Is available in both Plastic and Steel Fire Protected Oil Tanks.
- LABC Approved
- Independently tested to BS476
- Fire Protection allows the tank to be installed inside thus benefiting security.

1350SLBFP/30
1350SLBFP/60
Length: 2680mm
Width: 870mm
Height: 1665mm
Capacity: 1150 litres
Weight: 250kg

1400VBFP/30
1400VBFP/60
Diameter: 1585mm
Height: 1740mm
Capacity: 1200 litres
Weight: 210kg

2500HBFP/30
2500HBFP/60
Length: 2840mm
Width: 1520mm
Height: 1630mm
Capacity: 2300 litres
Weight: 320kg

3500VBFP/30 **
3500VBFP/60
Diameter: 2034mm
Height: 2520mm
Capacity: 3500 litres
Weight: 400/450kg

6000VBFP/30 **
6000VBFP/60
Diameter: 2580mm
Height: 2610mm
Capacity: 6000 litres
Weight: 460/510kg

10000VBFP/30
10000VBFP/60
Diameter: 2890mm
Height: 2600mm
Capacity: 10000 litres
Weight: 520/570kg

15000VBFP/30
15000VBFP/60
Diameter: 2860mm
Height: 3500mm
Capacity: 15000 litres
Weight: 750/800kg

Features

1350/1400/2500 models

- Tank Pack as standard (1" – ½" adaptor, ball valve and filter)
- Fire Retardant Material Integrally fitted
- 2" BSP Fill Point with cap and chain
- Overfill prevention valve *(this reduces the working capacity)
- Vent
- Inspection Lid
- Clock gauge &
- Remote Reading Electronic Watchman Sonic Gauge, 240v mains
- Lockable Hinged Flip Lid
- 1" BSP Bottom Outlet (Top Outlet available on request)
- Colour: Black

3500/6000/10000/15000 models

- Fire Retardant Material Integrally fitted
- 2" BSP Fill Point
- Overfill Prevention Valve
- Vent
- Visual Content Reading Gauge &
- Remote Reading Electronic Watchman Sonic Gauge, 240v mains
- 1" BSP Bottom Outlet (Top Outlet available on request)
- Lockable Fill Point Cabinet (** 3500/6000 optional extra)
- Battery Bund & Overfill Alarm with Warning Light (** 3500/6000 optional extra)
- Colour: Black

Optional Extras

1350/1400/2500 models

- Lockable Fill Cap & Chain
- Top Outlet
- Various other colours available, including Green

3500/6000/10000/15000 models

- Lockable Fill Point Cabinet with Battery Bund and Overfill Alarm optional for the 3500/6000 models. Standard on the 10000/15000 models*
- Lockable Fill Cap & Chain
- High Accuracy Contents Gauge & Bund and Overfill Alarm Unit, 240V (Tuffa FMS)
- Higher Accuracy Contents Gauge
- High Security Steel Cabinet with Roller Shutter
- Lockable Manway Access
- Top Outlet
- Various other colours available including Green

Range Summary - Plastic Fire Protected Tanks

Tank	Capacity (litres)	Length (mm)	Width (mm)	Diameter (mm)	Height (mm)	Weight (kgs)
1350SLBFP30/60	1150	2680	870	-	1665	250
1400VBFP30/60	1200	-	-	1585	1740	210
2500HBFP30/60	2300	2840	1520	-	1630	320
3500VBFP30/60	3500	-	-	2034	2520	400/450
6000VBFP30/60	6000	-	-	2580	2610	460/510
10000VBFP30/60	10000	-	-	2890	2600	520/570
15000VBFP30/60	15000	-	-	2860	3500	750/800

MONITORING THE CONTENTS:

1350/1400/2500

Clock Gauge: The smaller models are supplied with a visual contents gauge. The simple float device consists of a clock face attached with a float which provides a simple rough indication of the tank contents. The accuracy of the gauge is +/- 5% approximately and shows EMPTY,1/4,1/2,3/4 or FULL.

3500/6000/10000/15000

Electronic Contents Gauge: The larger models are supplied with an electronic level monitoring gauge. The measurement reader is situated within the bund. The display unit is connected to a standard 3-pin socket in the house/premises. This system is pre-set at the factory and, once activated, will display the tank contents in 1/10ths.

BUNDED FUEL STATIONS AND ECONOMY

THE TUFFA® BUNDED OIL FUEL STATION RANGE IS AVAILABLE IN VARIOUS CAPACITIES INCLUDING 1350L, 1400L, 2500L, 3500L, 6000L, 10000L, 15000L AND INTERLINKING UP TO 100,000 LITRES.

The Tuffa® Bunded Fuel Station range are complete and ready to use; all that is required is a hard standing flat concrete base and your final electrical connection. All standard diesel storage tanks are fitted with submersible pumping units comprising of pump, flowmeter, delivery hose, and an automatic shut off nozzle, filtration and gauge. Larger capacities also come complete with bund and overfill devices and a lockable security cabinet containing any relevant equipment.

SAVE TIME... by avoiding the queues at the pumps & SAVE MONEY... by bulk buying your fuel.

1350SLBFS
Length: 2680mm
Width: 870mm
Height: 1665mm
Capacity: 1350 litres
Weight: 220kg

1350SLBFS Economy
Length: 2680mm
Width: 870mm
Height: 1665mm
Capacity: 1350 litres
Weight: 220kg

Key Benefits

- Tailor made for Agricultural, Commercial and Industrial applications and for the safe, secure and responsible storage of Diesel.
- All refuelling equipment is housed in a high security lockable cabinet that has ample space for extras including hose reels.
- We use only premium quality equipment.
- Tanks are secure; all Tuffa tanks are fully lockable- Manufactured with a fully bunded construction that offers protection from weathering and overfilling.
- Overfill prevention device fitted to all larger models; automatic shut off when the tank is full.
- Standard, Economy and Bespoke models including Steel Fuel Tanks are available.
- The Tuffa FMS, a combined high accuracy gauge and bund/overfill alarm unit, is fitted to all larger models
- A wide variety of options are available to meet your requirements.
- Bespoke tanks available upon request.
- Fire protection available- allowing the tanks to be installed inside thus benefiting security.
- Tanks are UV Stabilised and Corrosion Resistant.
- The bund contains a minimum 110% volume of the inner tank
- Expert technical advice at hand to assist you.

1400VBFS
Diameter: 1585mm
Height: 1740mm
Capacity: 1400 litres
Weight: 180kg

1400VBFS Economy
Diameter: 1585mm
Height: 1740mm
Capacity: 1400 litres
Weight: 180kg

2500HBFS
Length: 2840mm
Width: 1520mm
Height: 1630mm
Capacity: 2500 litres
Weight: 290kg

2500HBFS Economy
Length: 2840mm
Width: 1520mm
Height: 1630mm
Capacity: 2500 litres
Weight: 290kg

3500VBFS
Diameter: 2034mm
Height: 2520mm
Capacity: 3500 litres
Weight: 370kg

6000VBFS
Diameter: 2580mm
Height: 2610mm
Capacity: 6000 litres
Weight: 430kg

10000VBFS
Diameter: 2890mm
Height: 2600mm
Capacity: 10000 litres
Weight: 490kg

15000VBFS
Diameter: 2860mm
Height: 3500mm
Capacity: 15000 litres
Weight: 720kg

Range Summary

Tank	Capacity (litres)	Length (mm)	Width (mm)	Diameter (mm)	Height (mm)	Weight (kgs)
1350SLBFS	1350	2680	870	-	1665	220
1350SLBFSE	1350	2680	870	-	1665	220
1400VBFS	1400	-	-	1585	1740	180
1400VBFSE	1400	-	-	1585	1740	180
2500HBFS	2500	2840	1520	-	1630	290
2500HBFSE	2500	2840	1520	-	1630	290
3500VBFS	3500	-	-	2034	2520	370
6000VBFS	6000	-	-	2580	2610	430
10000VBFS	10000	-	-	2890	2600	490
15000VBFS	15000	-	-	2860	3500	720

Features

Standard Fuel Station - 1350/1400/2500 models
- 240V Submersible Pump (60lpm)
- 4 metres of Delivery Hose
- Automatic Shut-off Nozzle
- Nozzle Parker
- Digital flowmeter
- 10 micron Filtration
- Clock gauge
- 2" Fill Point
- Vent
- Lockable Hinged Flip Lid
- Colour: Black Bund with Clear inner tank.

Economy Fuel Station - 1350/1400/2500 models
- 240V Submersible Pump (60lpm)
- 4 metres of Delivery Hose
- Automatic Shut-off Nozzle
- 2" Fill Point
- Vent
- Lockable Hinged Flip Lid
- Colour: Black Bund with Clear inner tank.

Standard Fuel Station - 3500/6000/10000/15000 models
- 240V submersible pump (60lpm)
- 4 metres of Delivery Hose
- Automatic Shut-off Nozzle
- Nozzle Holster
- Digital Flowmeter
- 10 micron Filtration.
- Tuffa FMS – Combined High Accuracy Contents Gauge & Bund and Overfill Alarm.
- Key Switch – to operate the pump
- 2" Fill Point
- Vent
- Lockable Fill Point Cabinet
- Overfill Prevention Valve
- Colour: Black

Optional Extras

- Higher Output Pump (80lpm approx.)
- 12V/24V Pump
- Extra Delivery Hose (per metre)
- Higher Accuracy Contents Gauge
- 10micron Filter – Particulate Only
- 10micron Filter - Water & Particulate
- Fuel Management System
- High Security Steel Cabinet c/w roller shutter
- Armco Protection Barrier
- Hose Reel
- Light within Cabinet
- Fire Protection
- Locking Fill Cap with keys

Monitoring the tank contents

1350/1400/2500 models *excludes economy

Clock Gauge: The smaller models are supplied with a visual contents gauge. The simple float device consists of a clock face attached with a float which provides a simple rough indication of the tank contents. The accuracy of the gauge is +/- 5% approximately and shows EMPTY,1/4,1/2,3/4 or FULL.

3500/6000/10000/15000 models

FMS: The Fuel Level Monitoring System is a combined high accuracy tank level indicator and bund and overfill alarm that is designed to provide both visual and audible alarms whenever a predetermined level in a storage tank is reached. It also gives a content readout in both litres and a percentage and can be pre-configured for Derv, Gas Oil and AdBlue with the option for self-calibration of other liquids.

DUAL COMPARTMENT RANGE

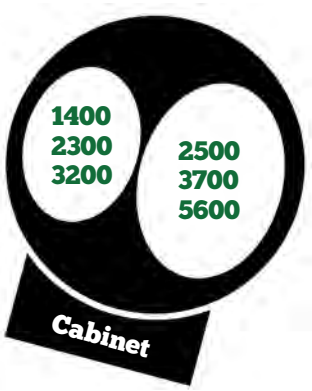
THE TUFFA® DUAL COMPARTMENT TANK RANGE IS AVAILABLE IN VARIOUS CAPACITIES INCLUDING 1400L/2500L, 2300L/3700L AND 3200L/5600L.

Our Dual Compartment Tanks have the capacity to store up to two different types of liquid, although triple compartment tanks can be quoted for. The Dual range is available in three different sizes, and come complete and ready to use.

Tuffa have developed a range of Dual Compartment Bunded Fuel Stations. The innovation behind the largest in the range is that it has the capacity to store three different products in the same bunded tank - derv, gas oil, hydraulic, lubes & gear oils, antifreeze, AdBlue, bio-diesel etc.

The Dual Compartment bunded fuel station is convenient for filling, space saving on a communal base and each product can be separately dispensed and monitored. A major plus is the cost saving as there is no need to purchase separate tanks.

Alternatively, if a dispensing system is not required for each compartment, we are able to accommodate this by manufacturing the tank with compartments with and without dispensing equipment.



1400/2500VBFS Dual

Diameter: 2890mm
Height: 2600mm
Capacity:
Compartment 1: 1400 litres
Compartment 2: 2500 litres
Weight: 510kg

2300/3700VBFS Dual

Diameter: 2890mm
Height: 2600mm
Capacity:
Compartment 1: 2300 litres
Compartment 2: 3700 litres
Weight: 530kg

Key Benefits

- Suitable for agricultural, commercial and industrial applications.
- Horizontal and vertical models available.
- Refueling equipment easily accessible from ground level.
- The bund contains a minimum 110% volume of the inner tank.
- The bunded construction offers integral protection from leakage and overfilling.
- Covered bund prevents the collection of rainwater and debris.
- Lockable outer cabinet allowing access to all equipment.
- Overfill prevention device fitted to all large bunded tanks; automatic shut off when the tank is full.
- Made from recyclable polyethylene.
- Corrosion resistant.
- UV stabilised.

TWO DIFFERENT LIQUIDS: ONE TUFFA TANK

Agricultural Machinery

Commercial Transport

3200/5600VBFS Dual

Diameter: 2860mm
Height: 3500mm
Capacity:
Compartment 1: 3200 litres
Compartment 2: 5600 litres
Weight: 740kg

Triple Compartment Tanks & Bespoke Steel Models available

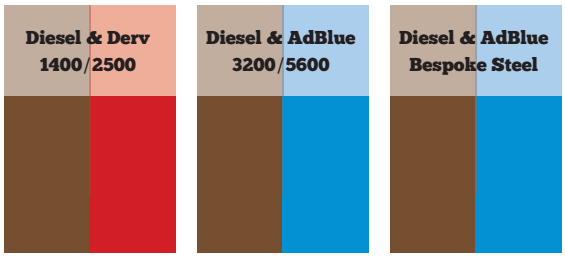
Features

- 2 x 240V submersible pump (60lpm approx).
- 2 x 4 metres of Delivery Hose
- 2 x Automatic Shut-off Nozzle.
- 2 x Nozzle Holster.
- 2 x Digital Flowmeter.
- 2 x 10 micron Filtration.
- 2 x Tuffa FMS – Combined High Accuracy Contents Gauge & Bund and Overfill Alarm.
- 2 x Key Switch – to operate the pump
- 2 x 2" Fill Point
- Vent.
- 1 x Lockable Fill Point Cabinet
- 2 x Overfill Prevention Valve *(this reduces the working capacity)
- Colour: Black

Optional Extras

- Higher Output Pump (80lpm approx.)
- 12V/24V Pump
- Extra Delivery Hose (per metre)
- Higher Accuracy Contents Gauge
- 10micron Filter – Particulate Only
- 10micron Filter - Water & Particulate
- Fuel Management System
- High Security Steel Cabinet c/w roller shutter
- Armco Protection Barrier
- Hose Reel
- Light within Cabinet
- Fire Protection
- Locking Fill Cap with keys

Common Uses:



Range Summary

Tank	Capacity (litres)	Length (mm)	Width (mm)	Diameter (mm)	Height (mm)	Weight (kgs)
1400/2500VBFS	1400					
Dual	2500	-	-	2890	2600	510
2300/3700VBFS	2300					
Dual	3700	-	-	2890	2600	530
3200/5600VBFS	3200					
Dual	5600	-	-	2860	3500	740

Monitoring the tank contents

The Fuel Level Monitoring System is a combined high accuracy tank level indicator and bund and overfill alarm that is designed to provide both visual and audible alarms whenever a predetermined level in a storage tank is reached. It also gives a content readout in both litres and a percentage and can be pre-configured for Derv, Gas Oil and AdBlue with the option for self-calibration of other liquids.

Digital Flowmeter

The digital flowmeter on all standard Fuel Stations has two readings, a batch total which can be reset and a totaliser which can not be reset.

WASTE OIL TANK RANGE

THE TUFFA® BUNDED WASTE OIL TANK RANGE IS AVAILABLE IN CAPACITIES OF 1350L, 1400L, 2500 AND LARGER SIZES ARE AVAILABLE.

Waste Oil needs to be stored in a safe and secure container. The Tuffa® Waste Oil Range are designed with pollution control in mind and are manufactured to all appropriate current legislations with in the oil industry, pending correct installation.

1350SLBWOS
Length: 2680mm
Width: 870mm
Height: 1665mm
Capacity: 1350 litres
Weight: 200kg

1400VBWOS
Diameter: 1585mm
Height: 1740mm
Capacity: 1400 litres
Weight: 160kg

2500HBWOS
Length: 2840mm
Width: 1520mm
Height: 1630mm
Capacity: 2500 litres
Weight: 270kg

Key Benefits

- The bund contains a minimum 110% volume of the inner tank.
- The bunded construction offers integral protection from leakage and overfilling.
- The clear inner tank provides a visual measure of the liquid level.
- Covered bund prevents the collection of rainwater and debris.
- Lockable hinged cover on outer tank allows easy access to equipment.
- Made from recyclable polyethylene.
- Corrosion resistant.
- UV stabilised.

Features

- Vent
- Lockable Hinged Flip Lid
- Tundish and filter – sited at a suitable height for pouring waste in to
- Colour: Black with Yellow Flip Lid

Optional Extras

- Fire Protection
- Suction Points - various sizes
- Pumping Arrangements
- Electronic Watchman Sonic, remote contents reading gauge
- Visual Contents Gauge

3500 – 15000 litre bunded models also available

Range Summary

Tank	Capacity (litres)	Length (mm)	Width (mm)	Diameter (mm)	Height (mm)	Weight (kgs)
1350SLBWOS	1350	2680	870	-	1665	200
1400VBWOS	1400	-	-	1585	1740	160
2500HBWOS	2500	2840	1520	-	1630	270

Further Details

A Tuffa Waste Oil Tank would benefit businesses in the motoring industry such as Garages, Bus Depots, Haulage companies etc. It will ensure that the waste oil is stored safely and securely at a reasonable price. Tuffa Tanks are environmentally friendly, helping to reduce the risk of spillages and having a range of sizes helps the customer to decide which tank would be best suited to their needs.

A large tank would not need emptying as frequently as a smaller tank, therefore reducing the bills for removing the waste oil out of the tank. If the tank is needed but not used to a great extent it would be a lot more useful to have a smaller tank. Waste oil tanks means that the oil inside will be recycled, when taken away by a waste disposal company; this is called 'sump' oil. Although the oil has been used it can be cleaned of contaminants and then recycled again and again - saving the environment. This recycled oil can then be used for many things.

SINGLE SKIN TANK RANGE

THE TUFFA® SINGLE SKIN OIL TANK RANGE IS AVAILABLE IN CAPACITIES OF 1350L, 1400L, 2500L AND LARGER SIZES ARE AVAILABLE.

The Tuffa® Single Skin Oil Tank Range are rotationally moulded from Medium Density Polyethylene. They are an economical solution for the storage of home heating oil at above ground oil storage tank installations at single family dwellings, when a bunded tank is not required.

Our single skin tanks are lightweight and easy to install. Applications include Heating Oil, Water and Animal feeds. They require very little maintenance and are UV stabilised. A typical single skin plastic tank comes in a standard black colour. However we can offer an aesthetically pleasing sandstone colour to camouflage into more rural areas with the surrounding outbuildings. Other colour options are available.

1350SL
Length: 2700mm
Width: 900mm
Height: 1700mm
Capacity: 1350 litres
Weight: 200kg

1400V
Diameter: 1576mm
Height: 1800mm
Capacity: 1400 litres
Weight: 160kg

2500V
Diameter: 1576mm
Height: 1400mm
Capacity: 2500 litres
Weight: 80kg

2500H
Length: 2100mm
Width: 1250mm
Height: 1400mm
Capacity: 2500 litres
Weight: 100kg

Key Benefits

- Fitted with a sealed inspection hatch for easy access.
- Weatherproof.
- Made from recyclable polyethylene.
- Maintenance free.
- Corrosion resistant.
- UV stabilised.

Features

- Tank Pack as standard (1" – ½" adaptor, ball valve and filter)
- 2" Fill Point
- Vent
- Inspection Lid
- 1" Bottom Outlet
- Contents Gauge
- Colour: Black

Optional Extras

- Electronic Contents Gauge
- Lockable Fill Point
- Various other colours available

Range Summary

Tank	Capacity (litres)	Length (mm)	Width (mm)	Diameter (mm)	Height (mm)	Weight (kgs)
1350SL	1350	2100	650	-	1250	75
1400V	1400	-	-	1210	1500	60
2500H	2500	2100	1250	-	1400	100
2500V	2500	-	-	1576	1800	100

Tank Pack included

Monitoring the tank contents

Clock Gauge

The smaller models are supplied with a visual contents gauge. The simple float device consists of a clock face attached with a float which provides a simple rough indication of the tank contents. The accuracy of the gauge is +/- 5% approximately and shows EMPTY,1/4,1/2,3/4 or FULL.

WATER TANK RANGE

TUFFA HAVE BEEN MANUFACTURING ABOVE GROUND WATER STORAGE TANK SOLUTIONS FOR OVER 25 YEARS, AND ARE RENOWNED FOR THEIR STRENGTH AND DURABILITY. TUFFA WATER TANKS ARE ROTATIONALLY MOULDED AS A 'ONE-PIECE' TANK, AND THE MANUFACTURING PROCESS ENSURES MAXIMUM WALL THICKNESS AT THE BASE – WHERE IT NEEDS IT MOST.

Available in capacities from 1350 litres to 20000 litres in a single unit, our Water Tanks are designed for uses throughout the agricultural, commercial, domestic, horticultural, and industrial and irrigation markets.

1350SLW
Length: 2060mm
Width: 670mm
Height: 1440mm
Capacity: 1350 litres
Weight: 75kg

1400VW
Diameter: 1210mm
Height: 1480mm
Capacity: 1400 litres
Weight: 60kg

2500HW
Length: 2105mm
Width: 1255mm
Height: 1410mm
Capacity: 2500 litres
Weight: 100kg

2500VW
Diameter: 1585mm
Height: 1780mm
Capacity: 2500 litres
Weight: 100kg

Key Benefits

- Suitable for Domestic, Commercial, Agricultural, Horticultural, Industrial and Irrigation markets
- Available in capacities from 1350 litres to 20000 litres, and can also be interlinked to obtain much larger capacities
- Non-Potable and Potable models available
- Potable Tanks manufactured from a WRAS Approved Polyethylene
- Steel Water Tanks also available
- Quick and Easy to Install
- Tough and Durable
- Fitted with a sealed manway cover or inspection hatch for easy access
- Manufactured in a UV Stabilised Material
- Weatherproof
- Maintenance Free
- Corrosion Resistant

Non-Potable Water Tanks – tanks for Irrigation, Liquid Fertiliser, Molasses and Rainwater Harvesting.

Potable Water Tanks – tanks intended for human consumption and are approved by the Water Regulations Advisory Scheme (WRAS).

TANKS CAN BE INTERLINKED TO OBTAIN LARGER CAPACITIES

3500VW
Diameter: 1594mm
Height: 2360mm
Capacity: 3500 litres
Weight: 140kg

6000VW
Diameter: 2013mm
Height: 2295mm
Capacity: 6000 litres
Weight: 140kg

10000VW
Diameter: 2577mm
Height: 2450mm
Capacity: 10000 litres
Weight: 240kg

15000VW
Diameter: 2578mm
Height: 3390mm
Capacity: 15000 litres
Weight: 340kg

20000VW
Diameter: 2900mm
Height: 3580mm
Capacity: 20000 litres
Weight: 360kg

Features

- Ventilation
- An Inspection Hatch (1350-2500 models) or
- A Manway Access (3500+ models)
- UV Stabilised Material, Black in Colour
- 1" Bottom Outlet. Larger and additional sockets available

Optional Extras

INLETS
- Multiple Sizes and Connections available
- Splash Fill
- Ball Float Valves
- Overflows and Backflow Prevention
- Calmed Inlets

OUTLETS
- Multiple Sizes and Connections available
- Flooded Suction / Drop Suction
- Isolation Valves
- Interlinking Connections
- Gravity Feed or Pumping Units

WATER MANAGEMENT
- Water Demand Control
- Automated Pumping Systems
- Water Level Indicators and Alarms

Range Summary

Tank	Capacity (litres)	Length (mm)	Width (mm)	Diameter (mm)	Height (mm)	Weight (kgs)
1350SLW-NP & 1350SLW-Pot	1350	2060	670	-	1440	75
1400VW-NP & 1400VW-Pot	1400	-	-	1210	1480	60
2500HW-NP & 2500HW-Pot	2500	2105	1255	-	1410	100
2500VW-NP & 2500VW-Pot	2500	-	-	1585	1780	100
3500VW-NP & 3500VW-Pot	3500	-	-	1594	2360	140
6000VW-NP & 6000VW-Pot	6000	-	-	2013	2295	140
10000VW-NP & 10000VW-Pot	10000	-	-	2577	2450	240
15000VW-NP & 15000VW-Pot	15000	-	-	2578	3390	340
20000VW-NP & 20000VW-Pot	20000	-	-	2900	3580	360

QUALIFIED WATER TECHNOLOGY LIST
AUTHORISED USER NO. 00985

WRAS APPROVED PRODUCT

RAINWATER HARVESTING TANKS "BIG BUTTS"

NO ROOM TO DIG A HOLE? THESE KITS FROM 1350 LITRES TO 2500 LITRES ARE FOR ABOVE GROUND AND COME WITH THE COMPONENTS TO COLLECT, FILTER, STORE AND PUMP THE RAINWATER TO WHERE YOU WANT IT.

Types of Rainwater harvesting systems we offer...

- Domestic systems, either direct or indirect (gravity/header tank versions) including potable upgrade where appropriate.
- Garden/irrigation systems.
- Commercial systems (bespoke)

1350SLRWH

Length: 2060mm
Width: 670mm
Height: 1440mm
Capacity: 1350 litres
Weight: 75kg

1400VRWH

Diameter: 1210mm
Height: 1480mm
Capacity: 1400 litres
Weight: 60kg

2500HRWH

Length: 2105mm
Width: 1255mm
Height: 1410mm
Capacity: 2500 litres
Weight: 100kg

2500VRWH

Diameter: 1585mm
Height: 1780mm
Capacity: 2500 litres
Weight: 100kg

Features

- 240V water butt pump with Gardena/Hoselock type male snap connector (compatible with most standard garden fittings i.e. hose pipes).
- Rainwater Diverter (Filter options available)
- Inspection lid for visual contents gauging
- Bottom outlet with valve
- Colour: Black

Optional Extras

- Rainwater Collector with leaf separator
- Alternative pumping systems available
- Various other colours available, including Green and Stone effect
- Larger capacities available

Larger models available

Range Summary

Tank	Capacity (litres)	Length (mm)	Width (mm)	Diameter (mm)	Height (mm)	Weight (kgs)
1350SLRWH	1350	2060	670	-	1440	75
1400VRWH	1400	-	-	1210	1480	60
2500HRWH	2500	2105	1255	-	1410	100
2500VRWH	2500	-	-	1585	1780	100

Slim line Rainwater Harvester (SLRWH)
Vertical Rainwater Harvester (VRWH)
Horizontal Rainwater Harvester (HRWH)

HOSEPIPE BAN?
SOLUTION: YOU NEED A BIG BUTT!
TUFFA'S 1350 LITRE BIG BUTT
COLLECT RAINWATER FROM YOUR ROOF TO WATER YOUR GARDEN, WASH YOUR CAR & SAVE MONEY!
www.tuffa.co.uk
EMAIL: sales@tuffa.co.uk
CALL: 01889 567700
MONDAY - FRIDAY
TUFFA TANKS

SAVE MONEY

The Tuffa® Big Butt range has been developed to SAVE money and maximise your potential to overcome a hose pipe ban in your area. Our systems, due to their greater capacities, which are up to ten times more than regular water butts, enable all your watering worries to be met with the additional capacity of washing your car etc.

MOLASSES TANK RANGE

TUFFA TANKS ARE THE IDEAL MOLASSES STORAGE SOLUTION; OUR HEAVY DUTY MOLASSES TANKS ARE MANUFACTURED WITH A THICKER WALL, MAKING THEM SUITABLE FOR THE STORAGE OF THIS HIGHER DENSITY PRODUCT.

Our range of Tuffa Tanks are specially designed to suit the storage of molasses. Each tank comes complete with an inspection lid / manway access, good ventilation (to reduce condensation and bacterial growth) and other equipment can be fitted per your requirements.

Tuffa have now introduced a 1500 litre Conical Molasses Tank with the following benefits:

- Drains the Entire Selection of Chemicals Out of the Tank
- Suitable for indoor and outdoor installations.
- Manufactured from medium - or high-density polyethylene with U.V. inhibitors and designed for containment of liquids of up to 1.7 specific gravity.
- Tank walls are translucent for level viewing (Natural Only) and are suitable for use as a molasses tank
- Stands available to support the conical bottoms.

Our standard single skin models listed in the range summary below are also available for use with Molasses

CONICAL MOLASSES

Diameter: 1210mm
Height: 2125mm
Capacity: 1500 litres
Weight: 50kg

Key Benefits

- Plastic Molasses Tanks available in sizes from 1350 litres to 20000 litres an a single unit
- Steel Molasses Tanks available in ALL sizes
- Our Tanks are specially designed to suit the storage of Molasses, a specific gravity of 1.45.
- Designed with good ventilation to reduce condensation and bacterial growth.
- Tanks can be fitted with ANY connections, to suit your specific requirements.
- Tanks are available in a wide variety of colours, to suit the environment.
- All Tuffa Molasses Tanks are Heavy Duty.

INTERLINKING UP TO 200,000 LITRES

Range Summary

Tank	Capacity (litres)	Length (mm)	Width (mm)	Diameter (mm)	Height (mm)	Weight (kgs)
1350SLW-Molasses	1350	2100	650	-	1250	75
1400VW- Molasses	1400	-	-	1210	1500	60
2500HW- Molasses	2500	2100	1250	-	1400	100
2500VW- Molasses	2500	-	-	1576	1800	100
3500VW- Molasses	3500	-	-	1576	2400	140
6000VW- Molasses	6000	-	-	2022	2200	140
10000VW- Molasses	10000	-	-	2500	2450	240
15000VW- Molasses	15000	-	-	2547	3350	340
20000VW- Molasses	20000	-	-	2866	3650	360

What is Molasses?
Molasses is a thick, dark brown, uncrystallized juice obtained from raw sugar during the refining process, and has a specific gravity of 1.45.

What is Molasses used for?
Molasses is sold both for human consumption, to be used in baking, and in the brewing of ale and distillation of rum, and as an ingredient in animal feed.

Storing your Molasses
With proper storage, molasses can last a long time. Heat and humidity can cause molasses to get moldy. Store it in a cool, dry place and be sure it is tightly closed. It can be stored for long periods without deterioration providing dilution does not occur. If dilution does occur molasses is liable to ferment fairly quickly. Storage tanks therefore must be constructed so that water cannot get in, and in addition tanks should be vented to prevent condensation taking place and diluting the surface of the molasses. An adequate system of ventilation also helps to prevent steel tanks from rusting.

ADBLUE TANK RANGE

THE TUFFA® BUNDED ADBLUE TANK RANGE IS AVAILABLE IN VARIOUS CAPACITIES INCLUDING 1350L, 1400L, 2300L, 2500L, 3200L, 3500L, 6000L, 10000L, 15000L AND INTERLINKING UP TO 100,000 LITRES.

What is Tuffa SkyBlue? Tuffa SkyBlue is the brand name of Tuffa's range of AdBlue Storage Tanks.

AdBlue tanks provide a simple storage solution for anyone who uses AdBlue in their vehicles. At Tuffa we provide multiple storage options so that the companies are able to store their own AdBlue and diesel fluids. When storing Adblue it's important to not let any foreign objects come into contact with the fluid which will cause contamination, and the temperature should not fall below -11 Degrees Celsius.

Our Adblue tanks are designed to meet the needs of the fluid and are customisable so the needs of the company can be met too. One of our popular choices of tanks is the fully bunded 1350 tank. It comes with a fill connection, float level gauge, submersible pump, hinged flip lid, nozzle holster, shut off nozzle and delivery hose and a digital flow meter. As with almost all tanks it's possible to place a bespoke order.

1350SLBFS/SKYBLUE

Length: 2680mm
Width: 870mm
Height: 1665mm
Capacity: 1350 litres
Weight: 220kg

1400VBFS/SKYBLUE

Diameter: 1585mm
Height: 1740mm
Capacity: 1400 litres
Weight: 180kg

2300SBFS/SKYBLUE

Length: 1850mm
Width: 1250mm
Height: 2500mm
Capacity: 2300 litres
Weight: 1500kg

Plastic Inner Steel Outer

2500HBFS/SKYBLUE

Length: 2840mm
Width: 1520mm
Height: 1630mm
Capacity: 2500 litres
Weight: 290kg

Key Benefits

- We are the UK's Largest AdBlue **Tank Manufacturer**
- Suitable for Commercial and Industrial applications
- A wide variety of capacities available from **1,350 litres to 15,000 litres**, and interlinking to obtain larger capacities is an option.
- Horizontal and Vertical models available
- **Plastic inner / Steel outer** (Spacesaver) models available for sites with limited space
- All AdBlue tanks incorporate **premium quality equipment**, and are of a fully bunded construction that offers integral protection from leaking and overfilling.
- The **Tuffa FMS**, a combined high accuracy gauge and bund/overfill alarm unit, is fitted to all larger models
- The refuelling equipment is easily accessible on all tanks from ground level
- Tanks are secure; all Tuffa tanks are **fully lockable**
- Manufactured to **AUS32 / DEF Guidelines**
- The bund contains a minimum 110% volume of the inner tank
- Tanks are UV Stabilised and Corrosion Resistant

Monitoring the tank contents

1350/1400/2500 models

Clock Gauge: The simple float device consists of a clock face attached with a float which provides a simple rough indication of the tank contents. The accuracy of the gauge is +/- 5% approximately and shows EMPTY,1/4,1/2,3/4 or FULL.

2300/3200/3500/6000/10000/15000 models

FMS: The Fuel Level monitoring System is a combined high accuracy tank level indicator and bund and overfill alarm that is designed to provide both visual and audible alarms whenever a predetermined level in a storage tank is reached. It also gives a content readout in both litres and a percentage.

All models

Digital Flowmeter: This has two readings, a batch total which can be reset and a totaliser which can not be reset.

TODO Type Fill Coupling: Designed for rapid filling of tanks this coupling comprises of a valve that opens and closes automatically on connection and disconnection.

3200SBFS/SKYBLUE

Length: 1850mm
Width: 1250mm
Height: 3500mm
Capacity: 3200 litres
Weight: 2000kg

3500VBFS/SKYBLUE

Diameter: 2034mm
Height: 2520mm
Capacity: 3500 litres
Weight: 370kg

6000VBFS/SKYBLUE

Diameter: 2580mm
Height: 2610mm
Capacity: 6000 litres
Weight: 430kg

10000VBFS/SKYBLUE

Diameter: 2890mm
Height: 2600mm
Capacity: 10000 litres
Weight: 490kg

15000VBFS/SKYBLUE

Diameter: 2860mm
Height: 3500mm
Capacity: 15000 litres
Weight: 720kg

Heating Packages available: call us for more details.

Range Summary

Tank	Capacity (litres)	Length (mm)	Width (mm)	Diameter (mm)	Height (mm)	Weight (kgs)
1350SLBFS/ SKYBLUE	1350	2680	870	-	1665	220
1400VBFS/ SKYBLUE	1400	-	-	1585	1740	180
2300SBFS/SKYBLUE	2300	1850	1250	-	2500	1500
2500HBFS/ SKYBLUE	2500	2840	1520	-	1630	290
3200SBFS/SKYBLUE	3200	1850	1250	-	3500	2000
3500VBFS/ SKYBLUE	3500	-	-	2034	2520	370
6000VBFS/ SKYBLUE	6000	-	-	2580	2610	430
10000VBFS/ SKYBLUE	10000	-	-	2890	2600	490
15000VBFS/ SKYBLUE	15000	-	-	2860	3500	720

Features

Standard AdBlue Dispensing Tank - 1350/1400/2500 models

- 2"Todo Type Fill Coupling
- Screened Vent
- 240V Submersible Pump
- Lockable Hinged Flip Lid
- 4 metres of Delivery Hose
- Stainless Steel 'Y' filter
- Automatic shut off nozzle
- Nozzle Holster
- Digital Flowmeter
- Visual Contents Gauge
- Colour: Blue

Standard AdBlue Dispensing Tank – 2300/3200/3500/6000/10000/15000 models

- 2"Todo Type Fill Coupling
- Screened Vent
- 240V Submersible Pump
- 4 metres of Delivery Hose
- Stainless Steel 'Y' filter
- Automatic shut off nozzle
- Nozzle Holster
- Digital Flowmeter
- Tuffa FMS – Combined High Accuracy Contents Gauge & Bund and Overfill Alarm.
- Lockable Cabinet
- Colour: Blue

Optional Extras

- **Auto-operation Nozzle Holster** – like standard forecourt pumps, an auto-operation nozzle holster cuts off the pump when the user finishes dispensing
- **Pulsed Output Flowmeter** – allows connection to an existing fuel monitoring system
- **Temperature Control Environment Package** - for applications which are to be employed in to extreme environments
- **Liquid Monitoring Remote Management Systems** – that have the capability to control and manage the consumption of AdBlue
- **Telemetry** – Remote contents level monitoring via web
- **Hose Reel** - various lengths
- **Extra length Delivery Hose**

Garage Forecourt

POLYETHYLENE AND POLYPROPYLENE CHEMICAL TANK RANGE

OUR PRODUCTS INCLUDE ROTATIONALLY MOULDED PLASTIC TANKS, MILD STEEL AND STAINLESS STEEL AND COMBINATION MATERIAL TANKS.

Tuffa UK Limited is a UK manufacturer who specialise in the design and manufacture of storage tanks.

"Over 25 years experience in the manufacture of Chemical Storage Tank Solutions"
We offer one of the largest ranges of storage tank solutions in the UK for above ground installations and all Tuffa tanks are subject to the highest and best Quality Check (QC) procedures ensuring constant high quality products.

1350SLB/Chemical
Length: 2680mm
Width: 870mm
Height: 1665mm
Capacity: 1350 litres
Weight: 200kg

1400VB/Chemical
Diameter: 1585mm
Height: 1740mm
Capacity: 1400 litres
Weight: 160kg

2500HB/Chemical
Length: 2840mm
Width: 1520mm
Height: 1630mm
Capacity: 2500 litres
Weight: 270kg

3500VB/Chemical
Diameter: 2034mm
Height: 2520mm
Capacity: 3500 litres
Weight: 350kg

6000VB/Chemical
Diameter: 2580mm
Height: 2610mm
Capacity: 6000 litres
Weight: 410kg

10000VB/Chemical
Diameter: 2890mm
Height: 2600mm
Capacity: 10000 litres
Weight: 470kg

15000VB/Chemical
Diameter: 2860mm
Height: 3500mm
Capacity: 15000 litres
Weight: 700kg

Chemical Storage Tanks also available in sizes up to 200,000 litres. Call us with your specific requirements. Our roto-moulded models have capacities up to 20000 litres and can be interlinked to attain a larger capacity, or our steel units are manufactured in excess of 100,000 litres.

Key Benefits

- Fully Enclosed, Fully Compliant, Safe and Secure Storage Solutions
- Complete Packages provided Corporate Colours available
- Easy to Maintain
- First Class Service from the experts at Tuffa Tanks
- Web Based Level Monitoring System standard on all larger models (3500+)
- Designed, manufactured and tested in-house at our works in Uttoxeter, Staffordshire.
- Chemical Storage tanks up to 15,000 litres in a single unit with the option of interlinking available to obtain larger capacities.
- Our Bunded Chemical Tank range is an integrally bunded tank range which provides a self contained solution to the safe storage of an extensive range of chemicals.
- Suitable for large capacity Dosing requirements. Moulded in one - piece and designed for durability and practical usage.
- Seamless Rotationally Moulded tanks in Polyethylene, Polypropylene also available
- Premium quality fittings and connections available to provide a complete storage solution.
- Numerous optional extras available, including a range of gauge systems, access ladders and platforms, Armco Protection Barrier and much more.
- Tuffa are able to manufacture bespoke systems to suit your exact requirements.
- Temperature Controlled Solutions available.

Our market area is diverse and includes tank storage provision for: chemical market, agricultural sector, water authorities, food industry, pharmaceuticals, airlines, oil companies, local government, fire service, Ministry of Defence and more.

What equipment do I need?

The Single Skin range is from 1,350 litres to 20,000 litres and the Bunded range from 1,350 litres to 15,000 litres (working capacity). The larger bunded tanks (3,500 litres to 15,000 litres) can be supplied complete with an integral cabinet with double doors and stainless steel locking gear, for the housing of dosing pumps, electrical control equipment and tanker delivery fill point.

Tuffa has developed a range of Chemical Dosing Systems incorporating Dosing pumps and accessories to suit customer specifications. We can also offer pumps, fire rated equipment, product metering or equipment to any customer specification required.

The Quotation Process

Working from a Material Safety Data Sheet (MSDS), Tuffa UK can produce a tank solution which will suit the nature of the product.

Major chemical suppliers offer guidelines regarding the safe storage and handling of their products and Tuffa Tanks work closely with these companies to ensure that our systems satisfy their recommendations. By standardising designs around the economical use of materials, manufacturing costs are minimised.

Our bespoke concept allows us to tailor make tanks for the particular storage characteristics of the product to take into account chemical resistance, temperature requirements and site conditions.
In order for us to offer a quote for your Chemical Storage Tank Solution, please email a MSDS to sales@tuffa.co.uk . As soon as this information has been received we will be able to prepare your quote.

Example Applications

The Tuffa® Chemical Tank range is suitable to store a variety of Chemicals including AdBlue, De-Icer, Anti-freeze, Sodium Hypochlorite and more. Examples of Chemical Tanks Tuffa have supplied previously:

- AdBlue
- Ammonia Solutions
- Anti-Freeze
- Battery Acid
- Calcium Chloride
- Calcium Nitrate
- Caustic Soda
- De-Icer
- Detergents
- Ferric Chloride
- Ferric Sulphate
- Hydrochloric Acid
- Hydrogen Peroxide
- Nitric Acid
- Phosphoric Acid
- Sodium Hypochlorite
- Sulphuric Acid

** Note: The compatibility of a Chemical with our products is looked at with each and every enquiry. The compatibility is subject to the concentration of the Chemical. A Material Safety Data Sheet (MSDS) is required in order to provide confirmation of compatibility.

"Help to keep planes off the ground with Tuffa De-Icer Tanks"

Range Summary

Tank	Capacity (litres)	Length (mm)	Width (mm)	Diameter (mm)	Height (mm)	Weight (kgs)
1350SLB/Chemical	1350	2680	870	-	1665	220
1400VB/Chemical	1400	-	-	1585	1740	180
2500HB/Chemical	2500	2840	1520	-	1630	290
3500VB/Chemical	3500	-	-	2034	2520	370
6000VB/Chemical	6000	-	-	2580	2610	430
10000VB/Chemical	10000	-	-	2890	2600	490
15000VB/Chemical	15000	-	-	2860	3500	720

Dosing Systems available: call us for more details

STEEL DISPENSING TANKS

THE TUFFA® STEEL FUEL STATION RANGE IS AVAILABLE IN VARIOUS CAPACITIES INCLUDING 1100L, 1400L, 1800L, 1940L, 2900L, 5250L, 10000L, 15000L, 20000L UP TO 200,000L.

1100SBFS
Length: 1700mm
Width: 800mm
Height: 1250mm
Capacity: 1097 litres
Weight: 500kg

1400SBFS
Length: 2000mm
Width: 1000mm
Height: 1000mm
Capacity: 1365 litres
Weight: 650kg

1800SBFS
Length: 2000mm
Width: 1250mm
Height: 1000mm
Capacity: 1800 litres
Weight: 775kg

1940SB
Length: 1830mm
Width: 1220mm
Height: 1220mm
Capacity: 1940 litres
Weight: 775kg

2900SBFS
Length: 2500mm
Width: 1250mm
Height: 1250mm
Capacity: 2890 litres
Weight: 950kg

5200SBFS
Length: 3000mm
Width: 1500mm
Height: 1500mm
Capacity: 5250 litres
Weight: 2000kg

10000SBFS
Length: 3600mm
Width: 1830mm
Height: 1830mm
Capacity: 10000 litres
Weight: 2500kg

15000SBFS
Length: 3000mm
Width: 2500mm
Height: 2500mm
Capacity: 15000 litres
Weight: 5500kg

20000SBFS
Length: 4000mm
Width: 2500mm
Height: 2500mm
Capacity: 20210 litres
Weight: 6500kg

Key Benefits

Being a totally self-contained, ready-to-use sealed unit, makes it easily moveable when empty and gives low maintenance as no rainwater can enter the bunded area.

- Manufactured in Mild Steel to BS EN/10 025
- Manufactured to BS799 Part 5
- All tanks manufactured from only high quality mild steel
- Design versatility to suit almost every site requirement
- Minimum 110% bund capacity to comply with regulations
- Sizes/capacity to suit clients footprint or site limitations
- Only premium ancillary equipment is fitted
- Serviceable life in excess of 30 years (with regular maintenance)
- Weatherproof
- Space saving
- Compliance with Control of Pollution regulations
- Cuts costly site work
- Needs only suitable hard standing foundation
- Easily transportable
- Clients own in-house colours can be accommodated on request
- Fully Bunded to comply with Oil Storage Regulations
- All inner tanks and outer bunds pressure tested
- Easily transportable
- Sizes/capacities to suit situations

Our steel tanks are manufactured in-house by a team of highly skilled fabricator welders, and are available in a range of colours, capacities and thicknesses. They are manufactured to your specification.

Features

	1100	1400	1800	1940	2900	5200	10000	15000	20000
240V Submersible Pump. (Approx 60lpm)	*	*	*	*	*	*	*	*	*
4 metres of Delivery Hose	*	*	*	*	*	*	*	*	*
Automatic Shut off Nozzle	*	*	*	*	*	*	*	*	*
Nozzle Parker	*	*	*	*	*	*	*	*	*
Digital Flowmeter	*	*	*	*	*	*	*	*	*
10 micron Filtration – particulate only	*	*	*	*	*	*	*	*	*
Contents Gauge: Visual Float Gauge	*	*	*	*	*	*			
High Accuracy Contents Gauge & Bund and Overfill Alarm Unit (Tuffa FMS)							*	*	*
Overfill Prevention Valve	*	*	*	*	*	*	*	*	*
2" Fill Point	*	*	*	*	*	*	*	*	*
Ventilation	*	*	*	*	*	*	*	*	*
Lockable Security Cabinet	*	*	*	*	*	*	*	*	*
Channel Runners	*	*	*	*	*	*	*	*	*
Lifting Lugs	*	*	*	*	*	*	*	*	*
Primed and Painted in standard Green	*	*	*	*	*	*	*	*	*

Range Summary

Tank	Capacity (litres)	Length (mm)	Width (mm)	Height (mm)	Weight (kgs)
1100SBFS	1097	1700	800	1250	500
1400SBFS	1365	2000	1000	1000	650
1800SBFS	1780	2000	1250	1000	775
1940SBFS	1940	1830	1220	1220	775
2900SBFS	2890	2500	1250	1250	950
5200SBFS	5250	3000	1500	1500	2000
10000SBFS	10000	3600	1830	1830	2500
15000SBFS	15000	3000	2500	2500	5500
20000SBFS	20210	4000	2500	2500	6500

Optional Extras

- Walk-in Cabinet
- High Accuracy Contents Gauge & Bund and Overfill Alarm Unit (Tuffa FMS)
- Key Switch
- Locking Fill Cap with 2 keys
- Extra Length Delivery Hose
- High Flow Pump (Approx. 80lpm)
- 10micron Water & Particulate Filter
- Armco
- Hose Reels
- Flowmeter Pulse Output- for connection to existing Fuel Management
- Fire Protection
- Also available: Various colours, split compartments, calibrated gauges and more.

Our steel tanks are available in a range of colours, capacities and thicknesses. They are manufactured to your specification including critical dimensions and Fire Protection for both domestic and commercial applications. We also include a lock facility to ensure a high level of security is achieved. Steel bunded or plastic inner/steel outer tanks are available.

STEEL BUNDED TANKS

THE TUFFA® STEEL BUNDED OIL TANK RANGE IS AVAILABLE IN VARIOUS CAPACITIES INCLUDING 1100L, 1400L, 1800L, 1940L, 2900L, 5250L, 10000L, 15000L, 20000 UP TO 200,000L.

We can accommodate any customer requirements, including one-off and bespoke systems. Furthermore, with our highly skilled fabricator welders you will receive a steel product that will outshine any other.

1100SB
Length: 1700mm
Width: 800mm
Height: 1250mm
Capacity: 1097 litres
Weight: 500kg

1400SB
Length: 2000mm
Width: 1000mm
Height: 1000mm
Capacity: 1365 litres
Weight: 650kg

1800SB
Length: 2000mm
Width: 1250mm
Height: 1000mm
Capacity: 1800 litres
Weight: 775kg

1940SB
Length: 1830mm
Width: 1220mm
Height: 1220mm
Capacity: 1940 litres
Weight: 775kg

2900SB
Length: 2500mm
Width: 1250mm
Height: 1250mm
Capacity: 2890 litres
Weight: 950kg

5200SB
Length: 3000mm
Width: 1500mm
Height: 1500mm
Capacity: 5250 litres
Weight: 2000kg

10000SB
Length: 3600mm
Width: 1830mm
Height: 1830mm
Capacity: 10000 litres
Weight: 2500kg

15000SB
Length: 3000mm
Width: 2500mm
Height: 2500mm
Capacity: 15000 litres
Weight: 5500kg

20000SB
Length: 4000mm
Width: 2500mm
Height: 2500mm
Capacity: 20210 litres
Weight: 6500kg

Key Benefits

- Manufactured in mild Steel to BSEN/10 025
- Manufactured to BS799 Part 5
- All tanks manufactured from only high quality mild steel
- Design versatility to suit almost every site requirement
- Minimum 110% bund capacity to comply with regulations
- Sizes/capacity to suit clients footprint or site limitations
- Only premium ancillary equipment is fitted
- Serviceable life in excess of 30 years (with regular maintenance)
- Weatherproof
- Space saving
- Compliance with Control of Pollution regulations
- Cuts costly site work
- Needs only suitable hard standing foundation
- Easily transportable
- Clients own in-house colours can be accommodated on request
- Fully Bunded to comply with Oil Storage Regulations
- All inner tanks and outer bunds pressure tested
- Easily transportable
- Sizes/capacities to suit situations

Features

- 2" BSP Fill Point complete with cap and chain located on top of the tank
- Vent
- Gauge: Visual Float Gauge
- 1" BSP Bottom Outlet.
- Overfill Prevention Valve
- Channel Runners (these will increase the tank height)
- Lifting Lugs
- Primed and Painted in standard Green (other colours available)
- CABINET: Available as an optional extra; various types available.

Tanks up to 200,000 litres

Range Summary

Tank	Capacity (litres)	Length (mm)	Width (mm)	Height (mm)	Weight (kgs)
1100SB	1097	1700	800	1250	500
1400SB	1365	2000	1000	1000	650
1800SB	1780	2000	1250	1000	775
1940SB	1940	1830	1220	1220	775
2900SB	2890	2500	1250	1250	950
5200SB	5250	3000	1500	1500	2000
10000SB	10000	3600	1830	1830	2500
15000SB	15000	3000	2500	2500	5500
20000SB	20210	4000	2500	2500	6500

Optional Extras

- Tank Pack (1" – ½" adaptor, ball valve and filter)
- Lockable Fill Point
- Fire Protection
- Higher Accuracy Contents Gauge
- Electronic Remote Reading Gauge
- High Accuracy Contents Gauge & Bund and Overfill Alarm Unit, 240V (Tuffa FMS)
- Security Fill Point Cabinet with lockable hinged door
- Various other colours available

Our steel tanks are available in a range of colours, capacities and thicknesses. They are manufactured to your specification including critical dimensions and Fire Protection for both Domestic and Commercial applications. We also include a lock facility to ensure a high level of security is achieved. Steel bunded or plastic inner/steel outer tanks are available.

GREAT PRODUCTS
GREAT PRICES
GREAT SERVICE

PETROL TANK RANGE

THE PETROL TANK RANGE IS AVAILABLE IN VARIOUS CAPACITIES INCLUDING 216L, 330L, 975L, 1250L, 1950, 2500L, 3000L AND LARGER SIZES AVAILABLE ON REQUEST.

The Petrol Tank is the only above ground Petrol Tank that is Fireproofed, specifically designed for petrol and made in England.

The unit is designed for installation at ground level, allowing gravity fed tanker delivery and is fitted with a patented Fire Proofing system.

We can accommodate any customer requirements, including one-off and bespoke systems. Furthermore, with our highly skilled fabricator welders you will receive a steel product that will outshine any other.

Key Benefits

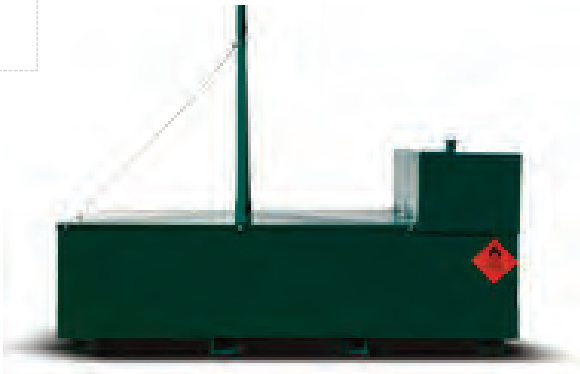
- Our Storage units for Petroleum spirit allow you to store a quantity of Petroleum spirit on your site, delivered by road tanker and avoid the hazards of collecting petrol in jerry cans from your local petrol station.
- The small capacity Caddy units allow you the convenience of filling up at a nearby petrol station and thus avoid the hazards and cost of collecting small amounts of petrol in jerry cans.
- Bunded and Fire Protected storage
- Designed and built in the UK
- Safe and legal petrol storage
- Secure padlock system
- Easy fuel metering
- Fork lift ready
- Hydraulic lid

216Caddy*
Length: 670mm
Width: 670mm
Height: 1300mm
Capacity: 216 litres

330Caddy*
Length: 1450mm
Width: 760mm
Height: 625mm
Capacity: 330 litres

975PT*
Length: 1500mm
Width: 1400mm
Height: 700mm
Capacity: 975 litres

1250PT*
Length: 1800mm
Width: 1500mm
Height: 700mm
Capacity: 1250 litres



1950PT*
Length: 2800mm
Width: 1400mm
Height: 700mm
Capacity: 1950 litres

2500PT*
Length: 2800mm
Width: 1750mm
Height: 700mm
Capacity: 2500 litres

3000PT*
Length: 3200mm
Width: 1750mm
Height: 700mm
Capacity: 3000 litres

Suitable for any Industry, including:

Tool Hire Shops, Scrap yards, Race courses, Golf clubs, Forestry, Sailing Clubs, Marine services, Yacht clubs, Construction, Allotments, Fire Service, Sports centre, Colleges, Schools, Farms, Country Estate/Gardens, Local Authorities, Factory's, Police Stations, Car dealerships, Outdoor pursuits + many others

*Images are for illustrative purposes and the design is subject to change

Features

216L and 330L models

- Full Fire Protection
- 2" BSP Fill Connection with Cap and Chain
- Hand Operated Reciprocating Pump
- Heavy Duty Tank Lid with Stay for keeping in an open position
- 3.6m Delivery Hose
- Small Manual Nozzle to fit the smallest of machines
- Fork Lift Skids
- Earth Strap and Rod
- Primed and Painted in standard Red

Optional Extras

- ATEX K33 Flowmeter
- 10 micron Filtration - Water / Particulate

975PT / 1250PT / 1950PT / 2500PT / 3000PT

- Full Fire Protection
- 4" BSP Fill Connection with cap and chain
- Hand Operated Reciprocating Pump. (ATEX approved electric pump options)
- Fully Welded Mild Steel Inner Tank with 2.5" Vent Pipe and 4" Inlet Connection.
- Welded Mild Steel Outer Tank with Bolt on Top, Hinged Lid and Bund Vent.
- Lockable Lid fitted with Stays for keeping in an open position.
- 3.6m Delivery Hose with Manual Nozzle
- Plastic Dipstick with Graduations fitted on top of fill point of inner tank.
- Steel Vent Pipe 4.5m high (off the floor) fitted with flash arrestor.
- Fork Lift Skids with bolt down connections welded to base of outer tank.
- Earth Strap and Rod
- Primed and Painted in standard Green

Optional Extras

- ATEX K33 Flowmeter
- 10 micron Filtration - Water / Particulate
- 12v ATEX Pump- Automatic Shut Off Nozzle
- 240v ATEX Pump- Automatic Shut Off Nozzle

Optional Extras

Training

975L - 3000L Petrol Tanks are easy to use and conform to all British safety requirements. However, care needs to be taken when dispensing and receiving fuel to keep spillages to a minimum. Staff training in the safe dispensing of petrol and the receiving of fuel deliveries plus use of the Record and Delivery books to keep proper records can be arranged if required.

Fire Station

Although all tanks are fully fire proofed, petrol remains a highly flammable substance. There is a statutory duty of care to ensure fire fighting equipment is easily accessible. The Mini Fire Station consists of two dry powder or foam extinguishers and fire bucket containing fire retardant material on a mobile unit.

Spill Kit

Areas where petrol is handled or stored should be provided with a means of controlling spills to prevent spreading to non-hazardous areas. A very effective solution consisting of a large, clearly labelled, 240 litre wheeled bin containing 8, 3 metre 'socks' filled with absorbent material plus 6 bags of loose absorbent material.

Range Summary

Tank	Capacity (litres)	Length (mm)	Width (mm)	Height (mm)
216 Caddy	216	670	670	1300
330 Caddy	330	1450	760	625
975 PT	975	1500	1400	700
1250 PT	1250	1800	1500	700
1950 PT	1950	2800	1400	700
2500 PT	2500	2800	1750	700
3000 PT	3000	3200	1750	700

The Petrol Caddy is designed for you to travel to the filling station and fill your own tank of 216 or 330 litres.

BESPOKE PRODUCTS

1. Tank Stand

Tuffa can design and manufacture Tank Stands to suit your exact requirements.

Client Case Study:
Problem Solving Products - Steel Fire Protected Tanks

Tuffa UK have recently manufactured and supplied several steel bunded Fire Protected storage tanks to an installation company based in Suffolk. The client used our Fire Protection due to the location the tanks were to be installed. One of the tanks was supplied with a specially constructed 500mm high support stand to raise the tank for gravity feeding purposes, and placed on to a smooth flat concrete base. The client also requested a different colour and finish to our standard Green, opting for a matt Black colour.

The customer was very impressed with Tuffa UK and the service they were provided with. "We will not hesitate to use Tuffa again or recommend your services" and were delighted with our "problem solving products".

Key Benefits

- Standard sizes available to suit your Tuffa Tank.
- Bespoke sizes; made to measure so that the stand fits your tank perfectly
- Manufactured to support the weight of your tank.
- Built to last.
- Various colours available.

2. Effluent Tank

A septic unit designed to fit under portable cabins where mains effluent / drainage on site is not available. This tank fits perfectly underneath cabins of all descriptions.

They are an excellent temporary effluent waste storage device. Tanks can be buried or sited underneath toilet blocks, kitchens, canteens

Capacity: 2500 litres
Length: 3500mm
Width: 2250mm
Height: 350mm

Specification

- 2x Large Sealed Inspection Lids; to prevent spillages and odour
- 2x 4" Inspection Lids
- 2x 4" Inserts for connection to toilet unit
- Convenient Lifting Eyes.
- Easily linkable to allow creation of larger capacity tanks
- Rigid and strong design
- Manufactured in Plastic, making them much lighter than Steel equivalents
- Much lighter than steel tanks, therefore easier to transport and move on site.
- Far more hygienic material than steel.

3. Conical Bottom Tank

Cone Bottom Tanks are suitable when a complete drain out of the stored liquid is required (total evacuation). Suitable for indoor and outdoor installations. Tanks require stands to support the conical bottoms. Tanks are manufactured from medium - or high-density polyethylene with U.V. inhibitors and designed for containment of liquids of up to 1.7 specific gravity. Tank walls are translucent for level viewing (Natural Only) and are suitable for use as a molasses tank.

Diameter: 1210mm
Height: 2125mm
Capacity: 1500 litres

Key Benefits

- Drains the Entire Selection of Chemicals Out of the Tank
- Can See Into the Tank to View the Liquid Level
- Prevents Tanks from Fading
- Can be Easily Installed in Various Locations Indoors
- Also Capable of Being Stored Outdoors

1

TUFFA STEEL FIRE PROTECTED TANKS: "PROBLEM SOLVING PRODUCTS"

4. Armco Protection Barrier

Tuffa have introduced the Armco Protection Barriers to provide extra security and protection to the unit it contains.

Key Benefits

- Provide the ultimate protection for your Tuffa Tank.
- Can be fitted to any Tuffa Tank no matter how small or large.
- Conforms to PPG2 guidelines; the Guidelines state that tanks must be protected against impact damage.

Client Case Study:
TUFFA Helps to Keep RyanAir Planes off the Ground

Tuffa UK Limited has supplied RyanAir with four fifteen thousand litre tanks to store aircraft de-icer, which will help their fleet flying out of Stanstead Airport through the winter's freezing conditions. The custom made bunded tanks, made from MDPE, are the perfect storage vessels for chemicals such as the industry-standard Killfrost de-icing fluids. Tuffa are the only manufacturers of these bulk plastic units being an ideal solution as opposed to utilising standard mild steel tanks which are not compatible with the chemical.

The tank construction minimises the risk of spillage and leaks, which in the busy and hazardous environment of an airport is essential. Each of these low maintenance storage tanks measures 2866mm diameter x 3650mm high, with a capacity of fifteen thousand litres per tank. They feature overfill prevention valves and alarms, visual gauges, emergency shut off valves, Kamlock connections and also the Armco Protection Barrier to minimise the risk of damage caused by impact.

5. Heating/Insulation Packages

Specification

- 1400 litre / 300 gallon capacity
- Anti–vandal steel housing: 1500mm (L) x 1500mm (W) x 1900mm (H)
- 4 bar pressure water supply
- IP rated 240V electrical connection
- Integral rainwater harvesting system
- 22mm BSP outlet
- Thermostatically controlled tube heater
- Can be painted to any colour per the customer requirements

Water Bowser

High-capacity bowser for water supply on sites with no mains connections.

Constant water pressure for all site amenities

To supply your appliances with water at a constant pressure of 4 bar, the bowser is fitted with a pump inside the steel housing. That means you won't suffer the low-pressure problems associated with many on-site water tanks.

Built-in frost protection for uninterrupted water supply

The steel housing is insulated to provide frost protection. The bowser is also fitted with a thermostatically controlled tube heater to prevent the water from freezing – ensuring you always have a supply of running water, whatever the weather.

Improved site sustainability with rainwater harvesting

The bowser incorporates a rainwater harvesting system, which can help to reduce the frequency of tanker refills – enhancing the sustainability of your site. When refills by tanker are required, the bowser has an easy-access filling point to make this process as simple as possible.

Capacity: 1400 litres
Length: 1500mm
Width: 1500mm
Height: 1900mm

Client Case Study:
Bespoke Water Storage Solutions

Tuffa were chosen to manufacture and supply bespoke waste water storage to the market leader in temporary welfare accommodation recently, the deciding factors being that Tuffa are a family run business, are an approachable and professional company and are always accommodating to the customer. The system also comprised of a pump suitable for water, a tubular heater and inlet and outlet connections. The inlet complete with a ball float valve to prevent overflow.

BESPOKE PRODUCTS

6. Multi-compartment Tanks

One of the issues that are commonly found when storing liquids is space. When you need to store more than one type of liquid, be it Adblue, Diesels, or Derv you may be concerned about finding the space for the different tanks on your property. There's no need for your concerns though as it's possible to store the fluid you need with our bespoke multi-compartment tank.

We have three different Plastic sized dual compartment tanks available here at Tuffa, and bespoke Steel tanks can be manufactured to contain more than two compartments. Each of the compartments can be fitted with or without dispensing equipment and can be built to hold a variety of different substances.

Client Case Study:
Three Large Steel Multi Compartment Tanks
Tuffa manufactured 3x 43,000 litre large Steel multi compartment dispensing tanks. Each tank comprised of 38,000 litres white diesel, 2,000 litres red diesel and 2,500 litre AdBlue.
Tuffa UK were able to utilise one of our plastic storage tanks for the AdBlue compartment which provided a major cost saving for the client compared to a stainless steel tank. Specific pumps were required to suit the site requirements which were fitted within a large high security walk in cabinet. The colour of the tank was also a requirement of the client. All of the tanks were delivered and crane off loaded into position at three separate local authority sites in the South

Key Benefits

- Our twin compartment and multi-compartment tanks are suitable for a variety of different industries
- Space Saving
- The tanks have automatic shut off to prevent overfilling
- Refuelling equipment is easily accessible from the ground
- Resist corrosion
- Made from recyclable material (polyethylene) so kinder to the planet
- Bund provides added protection and is at least 110% of the inner tank volume
- Cabinet houses all the equipment
- The cabinet is lockable for security purposes
- Bespoke models available

7. Dished Bases

Dished ends from Tuffa are manufactured from only premium quality steel.

Manufactured in a range of specifications, the dished ends are suitable for agricultural and commercial applications such as slurry tankers or oil tankers.

Client Case Study:
Tanks with Dished Bases and Ladder Access and Platform
Tuffa UK have recently manufactured 2 x 20,000 litre bespoke tanks. Both of the tanks have been constructed with steel dished bases with central outlet, raised up on support legs and also provided with galvanised ladders and platform to allow safe access into the manways.

The client had specific requirements for the size and positioning of the inlets/outlets for which we have worked with them very closely to ensure they match up to pipe work on site. One of the tanks was also fitted with a top mounted 2kW stirrer for mixing products within the tank.

6

7

8. Transportable Products

Our Transportable Bunded Tanks are available in a range of capacities to suit most fuel storage and transportation requirements.

Client Case Study:
Transportable Steel Bowser

We were approached by a leading Midlands Oil Distributor who has a contract with a national company to top up gensets in very remote areas.

We were asked to design a safe and efficient fuel dispensing system to be placed on an Isuzu truck, complete with a hose reel. The tank was manufactured from mild steel and was a bespoke manufacture built to the customer's desired specification.

Key Benefits

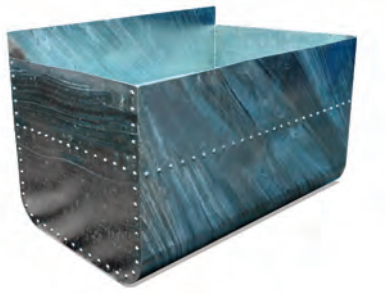
- Made to Order to suit your exact requirements
- Premium Quality Products at affordable prices.
- 110% bund with fully enclosed inner tank to comply with environmental standards.
- Fitted with lifting eyes and forklift pockets make the tanks easily movable.
- Robust steel construction ensures a secure, durable, legal tank.
- All pumps / connections / hoses are housed and can be locked within the bund.

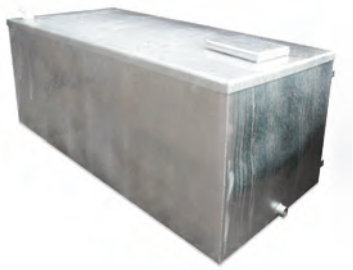
9. Galvanised Tanks

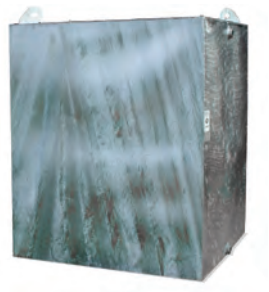
Galvanising of our Tuffa Steel Tanks is just one of many options available.

Client Case Study:
Bespoke Water Tanks for 1950's Film Set

TUFFA manufactures tanks for UK Film set for British Drama 'Philomena' starring Dame Judi Dench. Tuffa Tanks have recently designed & manufactured a bank of bespoke tanks to be used at a film set depicting the Laundry Room of a 1950's grand house, with thanks coming from the client for 'doing such a great job'. The client had specific requirements which Tuffa were only too happy to meet, and the tanks were galvanised with curved edges and aesthetic rivets to replicate tanks used back in the 50's. The client also requested a raised base to give the perception of the tanks being full of water. All four tanks were delivered to the film set, based in Oxfordshire.







Key Benefits

- Low Cost
- Available on all Tuffa Steel Tanks
- Less Maintenance
- Long Lasting
- Reliability
- Tough Coating

9

FROM STEPHEN FREARS DIRECTOR OF THE QUEEN
JUDI DENCH
STEVE COOGAN
PHILOMENA
Inspired by the true story of a search for a lost son

1950's style water tanks supplied to the Philomena film set.

BESPOKE PRODUCTS

10. Ladder and Platform Access

Equipment designed to make low level access both easier and safer.

Client Case Study:
De-Icer Storage with Ladder and Platform Access for Road Maintenance

A Northern Ireland authority purchased 2 x 15000VB Linked De-icer Tanks (50% Potassium Acetate) for the maintenance of public roads - enabling a capacity of 30,000 litres to be achieved. The tanks were fitted with our Armco Protection Barrier which surrounds each tank to protect from impact and are also fitted with access ladders and a platform to allow access to each tanks manway access. A suitable pump of approximately 200lpm was specified as well as a flowmeter with totaliser to measure how much product is being dispensed into the de-icer vehicles.

11. Large Capacity Tanks

Large capacity tanks available up to 200,000 litres.

Client Case Study:
Tuffa manufacture 183000L tank for National Haulage Company

"The Largest Steel Tank For Tuffa Yet"
Tuffa UK were delighted to have received a very large order from a national haulage company based in Cheshire. This particular order is for the largest steel tank that Tuffa UK has ever made, totaling a capacity of 180,000 litres.

The client had a re-fuelling island built to allow multiple vehicles to be filled up at the same time to minimise wasted time on site. The fuel island consists of 2x commercial pumps and an additional pump located beside the tank. The tank and pumps have been linked to the client's existing fuel management system on site, as opposed to choosing one of our standard fuel management systems.

The manufacture of this large steel diesel dispensing tank was undertaken by a team of highly skilled and trained steel production staff, and took just 4 weeks.

Upon completion came the requirement of arranging the delivery of this huge tank; something Tuffa were only too happy to assist with. A crane was utilised for loading and off-loading the tank at both ends using a local company, Steve Foster Crane Hire, who managed the 33 tonne lift with ease. The tank was then transported on an escorted specialist articulate vehicle suitable for the job direct to the happy client.

Key Benefits

- Made to Order to suit your exact requirements
- Premium Quality Products at affordable prices.
- 110% bund with fully enclosed inner tank to comply with environmental standards.
- Fitted with lifting eyes and forklift pockets make the tanks easily movable.
- Robust steel construction ensures a secure, durable, legal tank.
- All pumps / connections / hoses are housed and can be locked within the bund.

12. Plastic and Steel Combination Tanks

Client Case Study:

Tuffa Manufactures Mammoth Steel Tank for Overseas

A mammoth steel tank weighing in at 18 tonnes left the factory of Tuffa Tanks in Uttoxeter and made its way to a large well-known logistics company overseas. The Steel Tank measured up at 12000mm (L) x 2700mm (W) x 2500mm (H) and consisted of a 47,000 litre and 10,000 litre compartment, suitable to store Diesel and AdBlue respectively.

The tank, known in-house as the giant "Battenberg" because of its striped Fire Protected inner tank, was manufactured in just 8 weeks by Tuffa's team of highly skilled staff.

The Plastic AdBlue compartment (10000V) incorporated specialised equipment suitable for the aqueous solution, and was manufactured to AUS32 guidelines. The Steel Diesel compartment was complete with a full dispensing system complete with a higher output pump in order to save the client time and money by providing vehicles on site with a system built to fill up fast.

The tank was finished with smart decal and given a superb White finish, of which is the client's corporate colour.

13. Colour Options

Both our plastic and steel tanks can be manufactured in any colour, to suit your specific requirements. Past projects include a batch of Red Tanks for Total (refer to image below).

CALL OR EMAIL US NOW WITH YOUR BESPOKE REQUIREMENTS

TEL: 01889 567700 | EMAIL: SALES@TUFFA.CO.UK

12

13

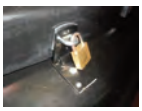
TUFFA ACCESSORIES

If you are looking for automatic shut off nozzles, filters, hose reels, pumps, flowmeters, gauges or fuel management systems then look no further. Should you not find what you are looking for please call our friendly sales team who are at hand to help you with your specific requirements.

SECURITY OPTIONS

Spin Secure Locking Fill Cap

Description: A locking device to fit any Tuffa Tank. It does not require a padlock, eliminates "crow-bar" access and is complete with 3 keys.



Locking Man Lid

Description: A padlock facility can be added to all larger models at the top access point.

Security Light

Description: A PIR light cabinet be fitted to any Tuffa Tank inside the cabinet/lid or externally.

FUEL MANAGEMENT

Whether you are looking for a quality low-budget system or a higher specification system, Tuffa can help provide you with whatever Management system you require.

Tuffa Fuel Management System (FMS)

Description: The The Tuffa FMS unit combines innovative design and meticulous function to give a robust and reliable liquid level monitoring system. Its high accuracy readings will give the user a clear picture of the tanks contents and its GSM technology allows you to check your tank level anywhere or even alert the owner of a theft. Coupled with this system is the added feature of our fuel management system, this system is managed by you from our Web Portal. Create you own account and manage your fleet with a host of innovative features that keep you in charge of your fuel.

CONTENTS GAUGES

Fuel Level sensors are a convenient way of monitoring the level of oil in your tank to prevent you from running out.Please browse the most popular gauges below, and should you have a requirement for another type of gauge please call our friendly sales team to discuss.

Visual Clock Gauge

Description: Float Level Gauge available in various sizes, this gauge provides a simple rough indication of tank contents and shows EMPTY ¼, ½, ¾ or FULL, and has an accuracy of +/- 5% (approx).

Tuffa Fuel Monitoring System (FMS)

Description: The Fuel Level Monitoring System is a combined high accuracy tank level indicator and bund and overfill alarm that is designed to provide both visual and audible alarms whenever a predetermined level in a storage tank is reached. It also gives a content readout in both litres and a percentage and can be pre-configured for Derv, Gas Oil and AdBlue with the option for self-calibration of other liquids.. This FMS unit is fitted to all larger dispensing tanks (3500+) models as standard.

Watchman Remote Reading Gauge

Description: An electronic oil level sensor remotely monitors the level of oil in the tank. A green transmitter is fitted to the top of the oil tank and an ultra sonic level measurement is transmitted to a level sensor receiver. This information is accessed via the receiver which is plugged into an electric wall socket within the home.

TANK ACCESSORIES

Tank Pack (Bottom Outlet Fittings Kit)

Description: 1" – ½" adaptor, ball valve and filter

Key Switch

Description: To enable and disable the submersible pump, with 2 keys. (Fuel Station models 3500+)

WE USE ONLY PREMIUM QUALITY PRODUCTS

FILTRATION

Filtration is essential to maintain an efficient installation and ensure that important components are protected from ingress damage.

Tuffa are able to offer a variety of filters which include: 10micron, 30micron, Particulate only, Water and Particulate, High Flow and more.

Particulate Filters

Description: Available in two flow rate ranges (69lpm or 100lpm) these low cost filter units provide particulate filtration down to 10 micron, eliminating the risk of vehicle damage from solid contaminants.

10micron Filter - Particulate (69lpm)

Description: Fitted to all Diesel tank models as standard.

10micron High Flow Filter - Particulate (100lpm)

Water & Particulate Filters

Description: Providing simultaneous water detection and particulate removal the range of water and particulate fuel filters are an ideal solution to most commercial transfer applications ensuring that fuel quality does not compromise your fleets' performance. Water & Particulate filtration is available in either 30 or 10 micron.

10micron Filter - Water and Particulate (up to 70lpm)

10micron High Flow Filter - Water and Particulate (up to 120lpm)

TUFFA TANK HOSE REEL OPTIONS

Hose Reel - Various lengths

Description: Self-retracting, steel construction. Reels are available in mild steel and stainless steel, and are suitable for use with Diesels, Petrol, AdBlue and Chemicals.

FLOWMETERS

We sell a wide range of mechanical, pulsed and digital fuel meters and oil flow meters suitable for most common fuel types including: Diesel meter, Biodiesel, Kerosene, Petrol, AdBlue etc, as well as for oil and grease metering applications.

We stock a huge range of meter models including diesel meters and can provide a fuel meter, oil flow meters for most applications, including high accuracy, low flow, high pressure, battery powered, low cost, to name but a few. See below the meters fitted to Tuffa Tanks as standard.

Digital Flowmeter - Diesel

Description: This Turbine Digital Flowmeter is suitable for use with diesels and is fitted to all Diesel tank models. Flow rate: 10-100lpm. Inlet/Outlet: 1"

Digital Flowmeter - AdBlue

Description: This Turbine Digital Flowmeter is suitable for use with AdBlue and is fitted to all AdBlue tank models. Flow rate: 10-100lpm. Inlet/Outlet: 1"

SUBMERSIBLE PUMPS

Our fuel delivery pumps are of the highest quality and we can supply our fuel pumps throughout the UK and worldwide. We offer a wide selection of pumps suitable for various fuels and oils.

Submersible Pump (approx. 40lpm)

Description: A submersible pump suitable for both diesels and AdBlue. Flow rate: 40lpm approx. Suitable for use with diesel or biodiesel up to B100, AdBlue or clean water.

Submersible Pump (approx. 60lpm)

Description: A fully stainless steel submersible pump designed for diesel, AdBlue and chemicals (with a flashpoint < 55°) Flow rate: 60lpm approx. Suitable for use with diesel or biodiesel up to B100, AdBlue or clean water.

Submersible Pump (approx. 80lpm)

Description: A submersible pump suitable for diesels. Flow rate: 80lpm approx. Suitable for use with diesel or biodiesel up to B100, AdBlue or clean water.

Images show the basic set up of the smaller range of Tuffa Diesel and Tuffa AdBlue tanks (1350 - 2500 models).

THE TUFFA FMS UNIT COMBINES INNOVATIVE DESIGN AND METICULOUS FUNCTION TO GIVE A ROBUST AND RELIABLE LIQUID LEVEL MONITORING SYSTEM. ITS HIGH ACCURACY READINGS WILL GIVE THE USER A CLEAR PICTURE OF THE TANKS CONTENTS AND ITS GSM TECHNOLOGY ALLOWS YOU TO CHECK YOUR TANK LEVEL ANYWHERE OR EVEN ALERT THE OWNER OF A THEFT. COUPLED WITH THIS SYSTEM IS THE ADDED FEATURE OF OUR FUEL MANAGEMENT SYSTEM, THIS SYSTEM IS MANAGED BY YOU FROM OUR WEB PORTAL. CREATE YOU OWN ACCOUNT AND MANAGE YOUR FLEET WITH A HOST OF INNOVATIVE FEATURES THAT KEEP YOU IN CHARGE OF YOUR FUEL.

OPTION 1: Fuel Level Monitoring

Fuel Level Monitoring only.

A combined unit comprising of high accuracy digital contents gauge and bund & overfill alarm.

OPTION 2: Fuel Level Monitoring + Management

Fuel Level Monitoring + Management.

As option 1 plus a fuel management system that records driver and vehicle data at the tank and automatically uploads to a web page for you to view and manipulate from a PC, Tablet or smart phone.

INNOVATION, DESIGNED & PRODUCED BY TUFFA.

FAQS

Frequently Asked Questions

Question: Are Tuffa Oftec Registered?
Answer:
Tuffa UK's tanks have been tested to Standard:prEN13341:2008 and in addition to this tested under the Oftec Fuel Storage Tank Test scheme and conforms to the Requirements for Tanks as set out in OFTEC OFS T 100: Issue 6 July 2008.
Tuffa's Fire Protected Tank Range:

- Independently tested to BS476: Part 22: 1987
- Independently tested to BS476 (Warrington Fire Research Centre)
- Meets Section J 5.4 of Building Regulations, Table 5.1 for Fire Protection for Oil Storage Tanks
- LABC (Local Authority Building Control) system approval

Question: Is a single skin or a Bunded Tank required?
Answer:
In all cases a risk assessment should be carried out by a suitable qualified engineer. If the following apply then a bunded oil tank is to be installed:

- Tank capacity in excess of 2500 litres
- Tank within 10m of controlled water
- Tank located where a spillage could run into an open drain or to a loose fitting manhole cover
- Tank within 50m of a borehole or spring
- Tank over hard ground or hard-surfaced ground that could enable spillage run-off to reach controlled water
- Tank located in a position where the vent pipe outlet is not visible from the fill point
- Tank supplying heating oil to building other than a single-family dwelling

Question: What is a Bunded Oil Tank?
Answer:
A bunded oil tank is a double walled tank or a tank within a tank. The inner tank stores the oil and the outer tank acts as a bund which encases the inner tank. The outer tank holds 110% of the capacity of the inner tank. If there is a spill or leak from the inner tank it's captured in the outer tank so avoiding groundwater pollution.

Question: What is an Integrally Bunded Oil Tank?
Answer:
An integrally bunded tank is an outer tank which is normally attached to the inner tank to rely on the inner tanks build characteristics for additional design support and strength.

Question: What is a Double Skinned Tank?
Answer:
A double skinned tank is a type of tank manufactured by some companies. This is where the outer tank is laid directly on the inner tank (two skins). To obtain structural strength on the outer tank a method is to support it externally or to drill holes in the outer plate and fillet weld the inner to the outer plate filling the hole in again. Some tanks manufactured like this have no secondary containment of 110%, unless additional space has been added to the outer skin to allow for this.

Question: What type of base is required for the Tank?
Answer:
The tank must be completely supported on a non-combustible base and the base must extend 300mm around the footprint of the tank.

Question: How can I maintain my Oil Storage Tank?
Answer:
If you want some helpful tips and advice regarding the maintenance of your Oil Storage Tank / Tanks, then refer to Tuffa's Tank Inspection and Maintenance Guidelines for the best advice. Refer to page 42.

Question: What liquids can be stored in a Tuffa Tank?
Answer:
The range of Tuffa Tanks cover storage for many liquids including: Oils, Petrol, Rain Water, Potable Water, Biodiesel, AdBlue or Urea, various Chemicals including Antifreeze and De-icer, Molasses, Waste Oils, Diesels, Lubricants and more.

Question: Do Tuffa offer a delivery service?
Answer:
Yes. Tuffa use a variety of outsourced haulage companies in order to bring you the competitive prices you see. Tuffa are able to offer a nationwide service, as well as deliveries overseas.
If off-loading is required, Tuffa are able to offer a hiab off-load facility or crane off-load to save you the hassle.

Question: What is the lead time / availability of a Tuffa Tank?
Answer:
This is dependent upon the model of the Tuffa Tank. However, we always endeavour to work to and meet your specific requirements. Typically, the lead time of a plastic Tuffa Tank is 5-7 days.

Question: What is Fuel Monitoring?
Answer:
Fuel monitoring is where the level of the fuel is being obtained either by:

a.) Sight: This can be a sight tube that runs to the top of the tank (small tanks normally), or cat and mouse gauges.
b.) Mechanically Pneumatic: Pneumatic reading gauges (hydrostatic), where fuel is displaced from a tube and the resultant back pressure formed by the head of oil gives a reading on a gauge.
c.) Electronically: This can be various systems, as above, giving either analogue or digital readings

Question: What is Fuel Management?
Answer:
Fuel management is where the above, plus some form of registering what fuel is taken from the storage vessel, normally through a flow meter. Where a record is taken and noted of the fuel used; there are many systems that electronically store this information and can be viewed on a computer system or a web application.

Query: How far away does the Tank have to be from a boundary?
Answer:
1.8m from an opening, and 0.76m from a boundary. However, these regulations do not apply to a Tuffa Fire Protected Tank.

Query: What guarantee do I get with my Tuffa Tank?
Answer:
Please contact the Tuffa Sales Team to find out more about the guarantee periods available with a Tuffa Tank.

Query: What are the benefits of a Plastic Tuffa Tank?
Answer:

- Competitively Priced
- Lightweight and durable
- Easily Transportable
- The Bunded construction offers protection from leakage and overfilling
- Covered Bund prevents the collection of rainwater and debris
- Fully lockable tanks
- Corrosion resistant
- UV stabilised
- Quick dispatch
- Can be interlinked to obtain larger capacities
- Various colours available
- Made from virgin material, which is recyclable.
- Can be factory fitted with our bespoke Fire Protection

Query: What are the benefits of a Steel Tuffa Tank?
Answer:

- Can be manufactured to any dimensions to suit all customer requirements
- All tanks manufactured from only high quality steel
- Design versatility to suit almost every site requirement
- Minimum 110% bund capacity to comply with regulations
- Only premium ancillary equipment is fitted
- Serviceable life in excess of 30 years (with regular maintenance)
- Various colours available
- Available in a variety of steel finishes
- Can be factory fitted with our bespoke Fire Protection

Question: What can I do to secure my tank?
Answer:
A few simple steps to help deter fuel thieves:

- Screen your tank with fencing or hedges
- Ensure gates or access to the tank are closed and fully secure at all times
- Conceal/cover any external pipes and fuel lines
- Install PIR security lights to the tank. CCTV is also a good deterrent
- Install lockable fill caps with padlock
- Consider installing a tank alarm
- Join a Neighbourhood Watch scheme
- Regularly check the level of fuel within the tank.

TANK INSPECTION AND MAINTENANCE GUIDELINES

This document is produced by TUFFA UK Limited

Authored by R Shenton

INSPECTION AND MAINTENANCE FOR LIQUID STORAGE TANKS, THERMOPLASTIC, THERMOSET AND STEEL TANKS

This document is written in conjunction with HSE Guidance Note PM86

Introduction

This inspection and maintenance of above is for static tanks with a head equal to the height of the product used (i.e. no pressures induced on the tank).

Legal Requirements

The legal requirements of HSE Guidance note PM86 in sections 22 – 27 must be adhered to for all tanks.

Installation

It is deemed that the storage tanks have been installed to the correct procedure by either manufacturer's instructions and guidelines, British Standards BS5410 Parts 1 and 2, and installation guidelines outlined in HSE Guidance note PM86 sections 28 – 36.

Operation and Maintenance

Examination
Tanks in service
Inspection of open bunded tanks
Inspection by Competent Person

Inspections should be undertaken by a competent person that is receiving a delivery of product on every fill prior to and whilst filling.

This inspection should include:

- The fill point arrangement for soundness and leaks
- Any outlet valves should be checked for leaks and operation (open and close successfully)
- The testing of contents gauge, any high level / overfill alarm and bund alarm.
- If vents can be seen that they are clear and unblocked and free of debris.
- A visual inspection around the tank with emphasis on the base of the tank. The inspection for plastic tanks should include any deformation of the surface of the tank i.e. excessive bulging, change in colour due to chemical attack, crazing or stress fractures. The inspection of steel tanks should include looking for evidence of rust and heavy corrosion, damp patches on seams & seam fractures.
- Bund to be visually inspected for soundness and integrity, water, spilt product, or other debris.

Competent Person Not Available

If no responsible person at the point of delivery is available, then the above inspection should be carried at the earliest convenience after filling.

Unmanned Site

If the location of the delivery is unmanned then the delivery driver should be made aware of certain aspects of the inspection requirements above.

The inspection procedure could be used as a record for fitness of purpose for continued use. If the frequency of filling the tank is greater than six monthly, then the above inspection must be carried out and documented accordingly.

Inspection of totally enclosed bunded tanks

Visual inspection of a totally enclosed bunded tank can be difficult due to the close proximity of the inner tank and the bund. A bunded tank must have an alarm fitted and the inspection would indicate that an alarm must be functioning correctly. It is preferential that if the alarm activator can be withdrawn and tested this would be preferred. If an alarm sequence has never been activated this would give signs that the inner tank is still sound.

Design Life Inspection

A design life of a storage tank should be approximately twenty years. For continued use of the storage tank an inspection by:

a) Removing the tank from bund and inspecting as above
b) A visual inspection device i.e. a camera can be used for the above

Internal Examination and Cleaning

Internal examinations should be undertaken by a competent person at appropriate intervals, as determined by the product used, and its cleanliness i.e. solids or water falling out of suspension. Entry into confined spaces should be carefully planned and supervised and should be subject to a strict procedures dependent on the substance stored, and in accordance with HSE requirements.

Manufacture Design Considerations

Tanks built after the year 2000 should have been manufactured to the requirements of an appropriate standard such as BS EN 13575, BS EN 12573, BS EN ISO 1778 or BS EN 13341.

Manufacturers should work to an appropriate standard which simplifies quality control and traceability. Would be purchasers should seek advice from the manufacturer regarding a suitable standard for the design and construction of new tanks.

In the case of tanks not manufactured in accordance with a recognised design code at date of manufacture, it is recommended that the tank be assessed against a suitable current standard, by the manufacturer or a competent person, in order to verify its continued fitness for service and purpose.

The user should make sure that the tank being ordered meets all of the design criteria required of it. It is important that users understand what they are purchasing and do not assume that the tank has the required properties and functions. It is of utmost importance that the manufacturer and purchaser understand the design and function requirements in order the tank is designed accordingly, and the purchaser select a reputable manufacturer accordingly.

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